





Maybe you know Haro as “the BMX company” known mainly for our BMX race, freestyle, and dirt jump history. We can't argue with that. After all, we have been making the world's best BMX bikes for well over 30 years now. Haro has become a household name with the BMX crowd and arguably the most sought-after BMX brand.

Perhaps you didn't have any idea Haro even made mountain bikes or asphalt bikes until you picked up this catalog or saw our bikes at your local shop. We're no rookies when it comes to bikes with bigger wheels...we've been making world-class mountain bikes and asphalt bikes almost as long as we've been making BMX bikes.

Everything in modern life takes inspiration from what's happened in the past. This is certainly the case at Haro. Since 1978, our bikes have been leaving big tracks on every type of terrain you can imagine. From the first BMX courses in California to every skate park from Carlsbad to Katmandu. After proving our innovations on dirt jumps, skate parks, and BMX tracks, we moved up to mountain bikes. Not surprisingly, much of the technology we pioneered in BMX has found a home on our full range of mountain bikes and eventually on to our city bikes and beach cruisers. Because Haro bicycles are designed by riders for riders, you'll find innovation, performance, and value in every bike we build.

Whether you live for sweet singletrack or simply want to cruise down your local bike path, Haro has a bike built for carving your own two-wheeled path through life. Take pride in knowing that you are aboard a bike that's backed by over 30 years of bike building experience. Come be part of cycling history.

Haro Bikes. Ride more.



cover photo: Caleb Smith







**XC Trail** – Moderate to aggressive cross-country riding on trails with varied terrain including technical sections, relatively steep climbs/descents, and natural obstacles including rocks, roots, and moderate jumps. Equipment requirements: hardtail or dual suspension with 4.5" to 5" of travel, balanced climbing and descending capabilities, light and durable. Recommended models: Flightline Expert, Flightline Comp, Flightline Sport, Mary XC, Mary SS, Ally XC, Beasley XC, Beasley 1/9, Beasley SS, Shift R5, Shift R3, Shift R1, Sonix Expert, Sonix Comp, Sonix, Sonix 650B

**All Mountain** – Just as the name implies, this is the bike that will take you all over the mountain and even let you experiment with some light freeride. Modern advances in suspension technology make these bikes suitable for longer cross-country rides over a wide variety of terrain. Equipment requirements: about 6" of travel, usually adjustable to some extent, or an aggressive hardtail with a burly frame and a longer-travel fork. Recommended models: Xeon Comp, Xeon

**Dirt Jump/Park** – Spontaneous riding that includes plenty of jumping, carving, and tricks. These bikes are designed to be ridden on technical, often man-made terrain ranging from dirt jumps to staircases to skate parks. Equipment requirements: overbuilt frames with shorter-travel forks, sturdy parts, and a heavy BMX influence. Recommended models: Steel Reserve 8, Steel Reserve 1.3, Steel Reserve 1.2, Steel Reserve 1.1, Thread Eight, Thread 1.2, Thread 1.1, The Porter

**XC Sport** – Easy to moderate riding on bike paths, dirt roads, and trails with minimal technical terrain. Equipment requirements: 60-100mm of fork travel, knobby tires for off-road traction, sturdy construction. Recommended models: Flightline 3 DX, Flightline Three, Flightline Two, Flightline One, Flightline 24, Flightline 20

**Commuting/Fitness** – Easy to moderate riding on paved surfaces. Emphasis on comfort and/or function. Equipment requirements: hardtail frame, rigid forks or short-travel suspension forks (75mm or less), rack/fender mounts, narrower high-pressure tires. Recommended models: Sanford, Gomez, Roscoe, Amos

**Comfort** – Easy riding on paved and hardpack surfaces for generally shorter distances. Emphasis on rider comfort. Equipment requirements: lightweight alloy hardtail, short-travel suspension forks (75mm or less), comfortable saddles, wider tires with low tread pattern for improved rolling resistance. Recommended models: Heartland, Heartland Sport, Heartland Limited, Heartland Deluxe, Express Sport, Express Limited, Express Deluxe

**Cruiser** – Very easy riding and cruising on paved surfaces which often lead to the shoreline, local pub, or school campus. Big emphasis on rider comfort while maintaining a high level of style with flashy paint and matching accessories. Equipment requirements: rust-free alloy frames, fenders, high-volume tires, swoopy bars, and comfy springer saddles. Recommended models: Zimzala Buster, Zimzala Maude, Zimzala Cooper, Zimzala Molly, Tradewind Marley, Tradewind Shae, Tradewind Ollie, Tradewind Judith, Railer SS, Railer XS









## Flightline Series



Defining the phrase “less is more”, our Flightline series is exactly that; everything you need without anything you don’t. Crafted with sturdy, high-grade aluminum frames and proven dirt-worthy parts, a Flightline is the perfect companion for your local bike path, commute to work or school, or favorite singletrack loop. Don’t be afraid to venture off the beaten path from time to time and hit the dirt.









## Flightline Expert

### **6061 aluminum frame with double-butted down tube, seat tube, and top tube**

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. The more butted tubes, the better.

### **RockShox Dart 3 100mm travel fork with rebound, preload, and lockout**

Magnesium lower legs for weight savings. Rebound and preload adjust allow you to tune your ride to your preferences. Fork also features TurnKey lockout to increase riding efficiencies uphill.

### **Complete Shimano 9-speed drivetrain with a Shimano XT Shadow rear derailleur**

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

### **Shimano M486 hydraulic disc brakes**

Excellent performance in a hydraulic disc brake system affordably priced. At a little over 400 grams per pair, the M486's help keep overall bike weight down.

### **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

### 6061 aluminum frame with oversized tubing

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

### 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 SLX Shadow rear derailleur with Deore Rapid Fire Plus shifters and front derailleur

The Shimano 9-speed drivetrain 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.

### Truvativ ISO-Flow 3.0 cranks with sealed cartridge BB

The name Truvativ is synonymous with great looks and super shifting. Sealed cartridge bottom bracket for low maintenance.

### 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!







## Flightline Sport

### 6061 aluminum frame with oversized tubing

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

### 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 8-speed EasyFire Plus shifters with a Shimano Alivio rear derailleur

Just as the name implies, EasyFire shifters are simple and effective. Paired up with an Alivio rear derailleur, you've got a 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.

### Weinmann ZAC 19 double wall rims

Durable double wall rims for added strength and reliability from one of the most experienced rim makers in the business. Double wall rims are a must for off-road trail use.







## Flightline Three DX

### 6061 aluminum frame with oversized tubing

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

### SR Suntour XCT V2 75mm travel fork with preload adjust

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 8-speed EasyFire Plus shifters with a Shimano Acera rear derailleur

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

### Promax 320 mechanical disc brakes

Disc brakes are hard to beat in terms of overall performance...they stop on a dime and aren't affected by wet, muddy, or dusty riding conditions.

### Weinmann ZAC 19 double wall rims

Durable double wall rims for added strength and reliability from one of the most experienced rim makers in the business. Double wall rims are a must for off-road trail use.





## Flightline Three

### 6061 aluminum frame with oversized tubing

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

### SR Suntour XCTV2 75mm travel fork with preload adjust

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 8-speed EasyFire Plus shifters with a Shimano Acera rear derailleur

Just as the name implies, EasyFire shifters are simple and effective. The Acera rear derailleur is a nice upgrade over the Flightline Two; 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.

### Weinmann ZAC 19 double wall rims

Durable double wall rims for added strength and reliability from one of the most experienced rim makers in the business. Double wall rims are a must for off-road trail use.







## Flightline Two

### 6061 aluminum frame with oversized tubing

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

### SR Suntour M3000 75mm travel suspension fork

Backed by over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. 75mm of travel soaks up all the stuff that goes bump on the trail. Alloy lower legs offer a substantial weight savings over steel.

### Shimano 7-speed EasyFire shifters with a Shimano Altus rear derailleur

Just as the name implies, EasyFire shifters are simple and easy to use. A Shimano Altus rear derailleur gives you years of worry-free performance and is a nicer quality upgrade over the Flightline One.

### 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.

### Kenda 831A 2.1 tires

You get the best of both worlds with these tires...you have knobbies for traction on the dirt with a unique connecting tread in the center of the tire for smooth rolling resistance on the bike path.





## Flightline One

### 6061 aluminum frame with oversized tubing

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

### Pivit 50mm travel suspension fork

The Pivit brand is exclusive to Haro...you won't find it on any other brand of bike! 50mm of travel is just enough to smooth out the bumps, making your ride much more enjoyable.

### SRAM MRX 7-speed twist shifters with a Shimano Tourney rear derailleur

SRAM twist shifters make shifting easy! A Shimano Tourney rear derailleur is simple, reliable, and effective.

### 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 831A 2.1 tires

You get the best of both worlds with these tires...you have knobbies for traction on the dirt with a unique connecting tread in the center of the tire for smooth rolling resistance on the bike path.







## Flightline 24

### 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.

### SRAM MRX 7-speed twist shifters with a Shimano Tourney rear derailleur

SRAM twist shifters are extremely easy for children to use and learn to shift. Shimano Tourney rear derailleur is simple, reliable, and effective.

### 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.

### 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 20

### 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 30mm travel suspension fork with alloy lower legs

With over 20 years of fork making experience, SR Suntour delivers exceptional value and great performance. 30mm of travel is just enough to smooth out the bumps and provide more control. Alloy lower legs offer a substantial weight savings over steel.

### SRAM MRX 6-speed twist shifter with a Shimano Tourney rear derailleur

SRAM 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.

### 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.

### Lightweight 20" 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.



## 29er Series

Bigger wheels means bigger fun. By this time, you've probably heard the buzz about 29ers: how much traction they have for climbs, how stable they corner, and how smoothly they roll over anything you encounter on the trail. Think the 29er movement is just a fad? Swing a leg over one and judge for yourself. Just be sure to wipe the smile off of your face long enough to hand the bike shop the money for your new ride.









## Mary SS

### Custom blend of 4130 cromoly steel frame tubes with eccentric bottom bracket

Nothing rides quite like cromoly steel; it's lively, compliant, and makes you feel one with the bike. The eccentric bottom bracket makes tensioning your chain a snap. Bent top tube for improved standover.

### Cromoly steel rigid fork; suspension corrected

Rigid forks are lighter and harness every ounce of your climbing power. But if you decide you want to install a suspension fork later, the Mary SS fork is suspension corrected based on the length of an 80mm RockShox Reba 29.

### Truvativ Stylo 1.1 singlespeed crankset

One of the finest singlespeed cranksets on the market. They are stiff, light, and reliable...plus they look great. We use the 180mm length on the 18" and 20" sizes for increased leverage on the larger wheel size.

### Avid BB5 mechanical disc brakes with Avid FR5 levers

Avid BB5's are among the best affordable mechanical disc brakes available. They offer killer modulation, easy set-up, and low maintenance. Perfectly paired with matching FR5 levers.

### Ritchey Pro flat bar with 10-degree sweep

The Ritchey Pro flat bar with a 10-degree sweep offers just the right amount of bend to be comfortable on your wrists and give you the leverage you need for standing climbs.





matte black classic

matte black modern



## Mary XC

### 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". Bent 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.

### Avid BB5 mechanical disc brakes with Avid FR5 levers

Avid BB5's are among the best affordable mechanical disc brakes available. They offer killer modulation, easy set-up, and low maintenance. Perfectly paired with matching FR5 levers.

### Kenda Nevegal 2.2 Stick-e Rubber tires

An award-winning 29er tire that performs exceptionally well in a wide variety of terrain. The soft Stick-E rubber compound really grips the trail while the unique tread pattern designed by John Tomac rolls nicely.

## Ally XC

### 6061 aluminum custom constructed frame with a double-buttressed down tube

Double buttressed tubing increases frame 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.

### 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 and Deore RapidFire Plus 9-speed shifters

The Deore 9-speed drivetrain works flawlessly together for effortless, precise shifting. Durable, reliable, and efficient, Deore is a true workhorse.

### Kenda Nevegal 2.2 Stick-e Rubber tires

An award-winning 29er tire that performs exceptionally well in a wide variety of terrain. The soft Stick-E rubber compound really grips the trail while the unique tread pattern designed by John Tomac rolls nicely.

### WTB Speed V Sport SE saddle

Saddles are one of the first things many folks upgrade on their bike...and many people upgrade to a WTB saddle. There's a reason why...WTB saddles are comfortable and durable.





**What the heck is 650B anyhow?** At 27.5", 650B is a wheel size that measures halfway between a standard 26" wheel and a 29" wheel. The advantages of this "tweener" size is proven 26" wheel frame geometry can be used with this larger wheel size, which gives you big-wheel performance advantages like better stability and improved traction without the big-wheel bike feeling. Think of it as the having the best of both worlds rolled into one phenomenally fun mountain bike.









## Beasley XC

### 4130 cromoly steel double butted 650B specific frame

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".

### White Brothers Fluid 650B specific fork with 100mm of travel

The White Brothers Fluid fork is the ultimate 650B-specific fork. Air sprung for easier rider weight adjustment with open oil bath damping. Adjustable compression and rebound.

### Truvativ Stylo 3.3 crankset

One of Truvativ's finest cranksets. They are stiff, light, and reliable...plus they look great. We use the 180mm length on the 18" and 20" sizes for increased leverage with the larger 650B wheel size.

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

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.

### 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.





## Beasley SS

**4130 cromoly steel double butted 650B specific frame with eccentric bottom bracket**  
Nothing rides quite like cromoly steel; it's lively, compliant, and makes you feel one with the bike. The eccentric bottom bracket makes tensioning your chain a snap.

**Custom made cromoly steel rigid fork; suspension corrected**  
You can "keep it real" and run rigid or add a suspension fork down the line; it's suspension corrected based on the length of a 100mm White Bros 650B fork. This fork was custom made just for Haro to our specifications.

**On-One Mary handlebars**  
The Mary bars may look unconventional, but they are arguably one of the most comfortable bars on the market. They are easy on your wrists and give you great leverage when you are grinding up a climb.

**Avid BB5 mechanical disc brakes with Avid FR5 levers**  
Avid BB5's are among the best affordable mechanical disc brakes available. They offer killer modulation, easy set-up, and low maintenance. Perfectly paired with matching FR5 levers.

**Truvativ Fire-X 1.1 singlespeed cranks**  
The arms of the Fire-X cranks are forged out of 6066 aluminum which is superior to 6061 aluminum in terms of strength. We use the 180mm length on the 18" and 20" sizes for increased leverage.

## Beasley 1x9

**4130 cromoly steel double butted 650B specific frame**  
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".

**Custom made cromoly steel rigid fork; suspension corrected**  
You can "keep it real" and run rigid or add a suspension fork down the line; it's suspension corrected based on the length of a 100mm White Bros 650B fork. This fork was custom made just for Haro to our specifications.

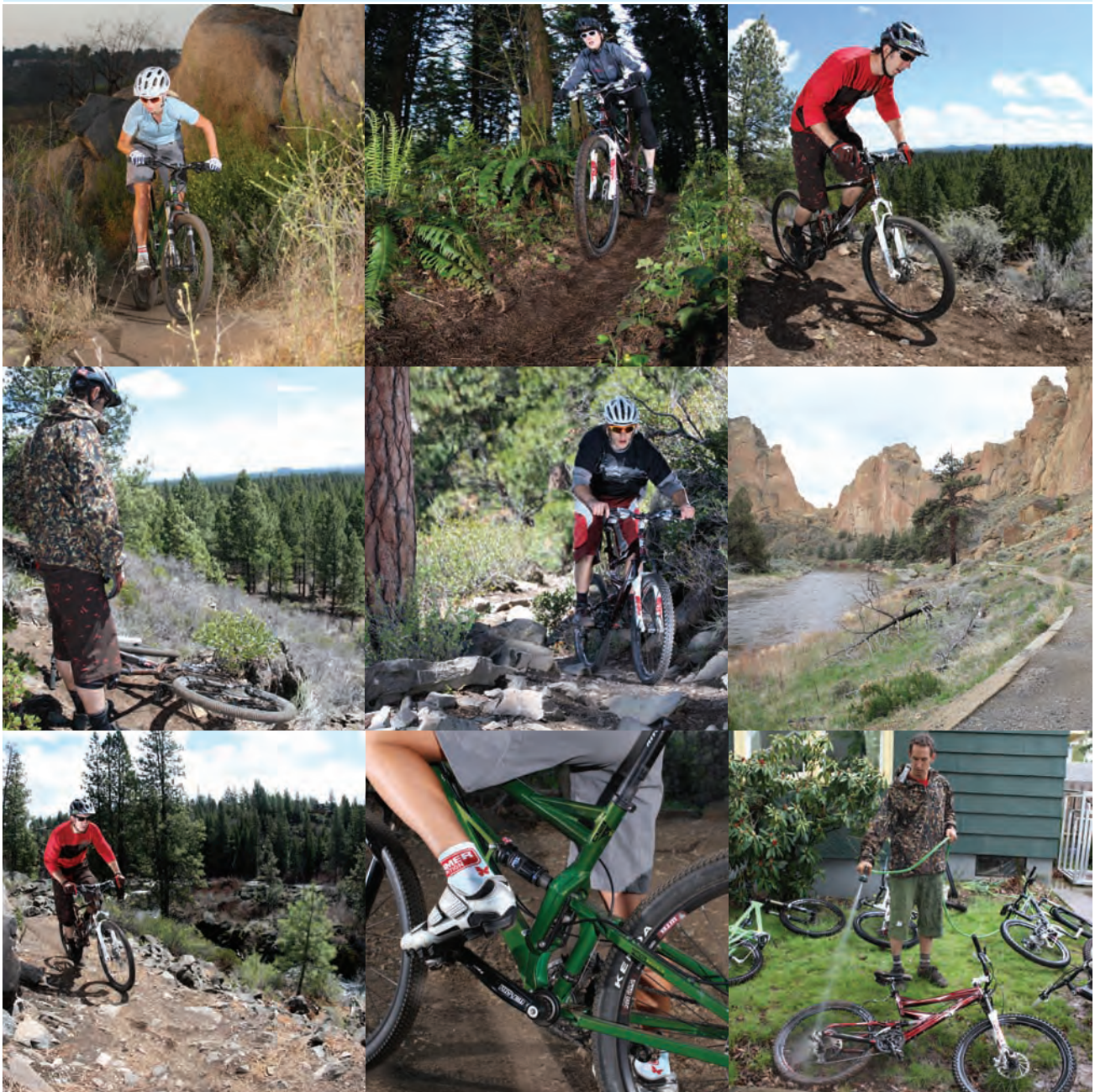
**Truvativ Stylo 1.1G singlespeed crankset**  
One of the finest singlespeed cranksets on the market. They are stiff, light, and reliable...and they look great. We use the 180mm length on the 18" and 20" sizes for increased leverage.

**Shimano XT Shadow rear derailleur with Shimano Deore LX 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.

**Shimano M485 hydraulic disc brakes**  
Excellent performance in a hydraulic disc brake system affordably priced. At a little over 400 grams per pair, the M485's help keep bike weight down.



You live for epic all-day rides that involve grueling climbs, smoking fast descents, and flowing singletrack. You want a bike that does it all...and does it all without any compromises. The bike has to have enough travel to soak up the hits...but not enough to hold you back on the climbs. Above all, it has to be as comfortable as your favorite pair of jeans. Meet Virtual Link. It's the do-it-all suspension solution to today's cookie-cutter trail bike problem.











## It only looks complicated

Virtual Link looks unlike any full suspension system you've ever seen. It also rides unlike any full suspension bike you've ever ridden. It may look complicated, but what Virtual Link does is actually pretty simple...it works.

Why Virtual Link works is pretty simple, too. Our patented design uses fewer links which results in a suspension design that is laterally stiff and out-performs the competition. This unique system is engineered to be firm when you need it to be (like on those punishing climbs) but be plush when you need it to be (like when you are screaming down the hill over rocks and roots). It's almost as if the bike can read your mind.

If you've ever dreamed of owning a bike that will help you climb stronger, descend faster, and clean sections of trail you once thought were impossible, a Virtual Link bike is your dream come true.

But don't take our word for it. Check out what people are saying about our Virtual Link bikes in the MTBR.com reviews:

- "Feels more like a hardtail to ride but takes the edge off impacts and totally absorbs smaller bumps, giving you the confidence to take bumpy sections at speed without compromising uphill sections."
- "I think this is the best bike for people looking to go from a hardtail to full suspension. I truly believe that it climbs better than any hardtail that I have ever had. It's lightweight, has awesome brakes and great suspension."
- "This bike is great for the aggressive XC singletrack rider. Climbs like a goat. Can take some hard hits on the front end sparing you the dreaded over the handlebars action."
- "I have found my 'one bike'."
- "Bottom line is that I've tried a lot of bikes to get to this one, and this is the first one that I felt truly comfortable on both the climbs and the descents. I liked all of my other bikes, but this one has all of those wrapped up into a single package. And it looks great too!"



## Benefits of Virtual Link

- **It is laterally stiff.** With a single piece swingarm, a Virtual Link bike does not have points of flex like a multi-link bike. Any place where two frame pieces are connected by a bolt is a place where flex can occur. The more pivots and linkage arms you have, the greater the chance for flex your frame will carry. A bike that is laterally stiff will also help increase the lifespan of your frame's bearings as well as your rear shock. With other flexy multi-link frame designs, lateral flex often places undue stress in these areas, causing premature wear.
- **It is fully active while braking.** Since the main pivot moves around the bottom bracket, Virtual Link bikes remain active while under heavy braking load. Some single pivot and multi-link designs will lock out (a.k.a. "brake jack") under heavy braking. With no linkage between the bottom bracket and rear axle, a Virtual Link bike's braking force is driven into the wheel while keeping the bottom bracket main pivot free to move. This allows the suspension to still track the ground and not "lock out" over bumps, giving you fully effective braking power and unparalleled traction.
- **Chain growth is eliminated.** Notice there isn't a pivot between the bottom bracket and rear axle; this makes chain growth impossible. Chain growth is the demon that causes that dreaded pedal bob that robs your power. All other suspension designs have chain growth to a certain extent. The amount of growth combined with the path

of the rear wheel determines how efficiently the bike will pedal and absorb the trail beneath it. The Virtual Link system engineers pedal bob right out of your ride so every ounce of your pedal stroke goes into powering the rear wheel forward with zero pedal feedback.

- **Ghost shifting due to lateral flex is nearly eliminated.** Since the Virtual Link swingarm is laterally stiff, there is no way for the dropout on either side of the bike to move independently from each another under load on an off-camber section or a hard corner. In conditions like these, some multi-link and single pivot bikes will "ghost shift" into higher or lower gear as a result of swingarm flex. The single piece swingarm on a Virtual Link bike eliminates ghost shifting, keeping you in the gear you want to be in.
- **Shorter chainstay length.** Without a myriad of complex links on the rear swingarm, the chainstay length is shorter than most other full-suspension designs. A shorter chainstay results in improved climbing performance and an overall wheelbase length reduction...which will make a Virtual Link bike handle better in tight singletrack and switchbacks.





## Sonix Expert

### Patented Virtual Link System 120mm travel frame

Our patented Virtual Link System rides like no other bike on the market! We engineered the Sonix so it climbs without the nagging bob you'll find on other designs. On descents, you'll swear you are on a bike with far more travel.

### RockShox SID Race 100mm travel fork

At 2.9 lbs, the SID Race is one of the lightest cross country forks on the market. With RockShox's Dual Air system, this fork is highly tunable to your style and riding conditions.

### RockShox Monarch 3.3 rear shock

Oversized body for improved heat dissipation and durability. External rebound adjust with 3-position Floodgate lever allows you to dial in the amount of rebound and compression you want.

### Shimano XTR Shadow Carbon rear derailleur with Shimano SLX RapidFire Plus 9-speed shifters

The lightest rear derailleur on the market just got better with carbon plates and Shimano's exclusive Shadow low-profile design. Powered by SLX two-way release 9-speed shifters.

### New Shimano SLX hydraulic disc brakes with Centerlock rotors

20% more stopping power than Deore LX with improved ergonomics and tool-free lever reach adjustment. The Centerlock system makes rotor installation and removal easy.





## Sonix Comp

### Patented Virtual Link System 120mm travel frame

Our exclusive Virtual Link System rides like no other bike on the market! We engineered the Sonix so it climbs uphill without the nagging bob you'll find on other designs. On descents, you'll swear you are on a bike with far more travel.

### Fox 32 FR 100mm travel fork

Fox is synonymous with high performance. The 32 FR is a light, plush air fork with rebound adjust. One of the lightest, stiffest forks in its class...and buttery smooth to boot.

### 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 9-speed rear derailleur with Shimano Deore RapidFire Plus 9-speed shifters

The XT Shadow rear derailleur sits more inboard, tucked away and protected from damaging roots, rocks, and other obstacles. Deore Rapid Fire Plus means two-way release for fast shifts.

### Shimano M575 hydraulic disc brakes

Powerful 2-piston disc brake that uses environmentally friendly mineral oil. At about 185 grams per wheel, it's one of the lightest disc brake systems in its class.







## Sonix

### Patented Virtual Link System 120mm travel frame

Our exclusive Virtual Link System rides like no other bike on the market! We engineered the Sonix so it climbs uphill without the nagging bob you'll find on other designs. On descents, you'll swear you are on a bike with far more travel.

### Marzocchi 33R 100mm travel fork

No-nonsense cross country trail fork with coil springs and adjustable rebound; easy to set up and maintain. Buttery smooth; just as you'd expect from Marzocchi.

### RockShox Bar 2.1 rear shock

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.

### New Shimano SLX Shadow rear derailleur with Shimano Deore RapidFire Plus 9-speed shifters

The SLX Shadow rear derailleur sits more inboard, tucked away and protected from damaging roots, rocks, and other obstacles. Deore Rapid Fire Plus means two-way release for fast shifts.

### Shimano M486 hydraulic disc brakes

Excellent performance in a hydraulic disc brake system affordably priced. At a little over 400 grams per pair, the M486's help keep overall bike weight down.





## Sonix 650B

### Patented Virtual Link System 120mm travel frame, 650B specific

Our patented Virtual Link System rides like no other bike on the market! We engineered the Sonix so it climbs without the nagging bob you'll find on other designs. On descents, you'll swear you are on a bike with far more travel. All-new frame designed specifically for 650B wheels.

### White Brothers Fluid 650B specific fork with 120mm of travel

Made with a custom travel option just for our Sonix 650B, the White Brothers Fluid fork is the ultimate 650B-specific fork. Air sprung for easier rider weight adjustment with open oil bath damping. Adjustable compression and rebound.

### RockShox Monarch 3.3 rear shock

Oversized body for improved heat dissipation and durability. External rebound adjust with 3-position Floodgate lever allows you to dial in the amount of rebound and compression you want.

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

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.

### 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.







## Xeon Comp

### Patented Virtual Link System 160mm travel frame

Our exclusive Virtual Link System rides like no other bike on the market! We engineered the Xeon so it climbs without the nagging bob you'll find on other designs. On descents, you'll swear you are on a bike with far more travel.

### Marzocchi 44 ATA 140mm travel fork with 15mm thru axle and aluminum steerer

Air Travel Adjust fork lets you to adjust travel from 100mm to 140mm. The 15mm thru-axle increases stiffness and improves handling. Alloy steer tube for weight savings.

### RockShox Monarch 3.3 rear shock

Oversized body for improved heat dissipation and durability. External rebound adjust with 3-position Floodgate allows you to dial in the amount of rebound and compression you want.

### SRAM X.9 rear derailleur with SRAM X.7 9-speed shifters

The SRAM name is synonymous with ultra-crisp shifting. The X.9 rear derailleur is based on the same technology as the X.0 but made with more affordable materials.

### Shimano Deore XT 15mm front hub

Shimano's Deore XT oversized 15mm axle front hub delivers almost the same stiffness as a 20mm thru-axle with less weight. 15% stiffer than a traditional 9mm QR axle.





## Xeon

### Patented Virtual Link System 160mm travel frame

Our exclusive Virtual Link System rides like no other bike on the market! We engineered the Xeon so it climbs without the nagging bob you'll find on other designs. On descents, you'll swear you are on a bike with far more travel.

### Marzocchi 44 TST2 140mm travel fork with 15mm thru axle

Marzocchi's exclusive TST2 damping system allows you to tune your fork to various trail conditions. The 15mm thru-axle increases stiffness and improves steering precision.

### RockShox Monarch 3.1 rear shock

Oversized construction for improved heat dissipation and durability. External rebound adjust and Floodgate allow you to dial in the amount of rebound and compression you want.

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

The SRAM X.7 rear derailleur utilizes the same technology as the much higher end X.0 model but in a less expensive package. 9-speed X.5 shifters for a wide gear range.

### Shimano M486 hydraulic disc brakes

Excellent performance in a hydraulic disc brake system affordably priced. At a little over 400 grams per pair, the M486's help keep bike weight down.





Simple, proven, tried-and-true. That's what our Shift full suspension bikes are all about. You just can't beat single-pivot bikes in terms of overall performance, value, and reliability. With 4.5" of confidence-inspiring rear wheel travel, the Shift is the perfect choice to rip up your local cross-country trails without breaking your bank account. Get on a Shift and go play on the trails.









## Shift R5

### 6061 air-formed aluminum 4.5" travel frame with sealed bearing pivot

Tried-and-true, proven 4.5" 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!

### Marzocchi 33LO 120mm travel suspension fork with lockout

No nonsense fork with coil springs and fixed rebound, so the 33LO is easy to set up and maintain. Lockout helps get you up the climbs. Buttery smooth just as you'd expect from Marzocchi.

### RockShox Ario 2.1 rear shock with rebound adjust

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 with Deore 9-speed shifters and front derailleur

The XT Shadow rear derailleur sits more inboard, neatly tucked away and protected from potentially damaging roots, rocks, and other obstacles. Deore 9-speed shifters for smooth, precise shifts every time.

### Shimano M486 hydraulic disc brakes

Excellent performance in a hydraulic disc brake system affordably priced. At a little over 400 grams per pair, the M486's help keep bike weight down.





bright silver

cherry cola



## Shift R3

### 6061 air-formed aluminum 4.5" travel frame with sealed bearing pivot

Tried-and-true, proven 4.5" 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!

### Marzocchi 22 RLO 120mm travel suspension fork with lockout

The Marzocchi 22 RLO is a great value that brings Marzocchi's unparalleled performance to the masses. Buttery smooth! Lockout helps get you up the climbs.

### 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 X.0 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 4.5" travel frame with sealed bearing pivot

Tried-and-true, proven 4.5" 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

120mm 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 fuss with on a coil shock.

### Shimano 8-speed EasyFire shifters with a Shimano Alivio rear derailleur

Just as the name implies, EasyFire shifters are simple, effective, and easy to use. Paired up with an Alivio rear derailleur, you've got a 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.



We drew upon 30 years of BMX expertise when we created our Thread and Steel Reserve hardtails. They're like big BMX bikes for big kids. Whether you choose to ride singlespeed or geared, these are the perfect play bikes bred for doubles, gaps, rhythm sections, rail slides, and skateparks. Prefer full suspension? Check out the all-new Porter; Eric Porter's signature slopestyle bike. No matter where you ride, our dirt jump / park bikes are winners that were decades in the making.









### Get a bike 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 we think 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 and that's engineered with the right geometry.

Our dirt jump/park mountain 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 dirt jump/park bikes 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 dirt jump/park 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.

As the brand behind the world's 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 dirt jump/park mountain 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 BMX inspired mid BB 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 Eric Porter and Phil Sundbaum.

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

The Dirt Jumper is the only 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 x 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-buttressed cromoly frame with BMX inspired mid BB 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 Eric Porter and Phil Sundbaum.

**SR Suntour 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.

**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 1.1

### **4130 double-buttressed cromoly frame with BMX inspired mid BB 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 Eric Porter and Phil Sundbaum.

### **Cromoly rigid dirt jump specific fork**

Keeping it simple and efficient, we chose a heat-treated, full-cromoly rigid fork for the Steel Reserve 1.1. This is the same style 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 x 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.







## Steel Reserve 1.1

### 4130 double-buttressed cromoly frame with BMX inspired mid BB 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 Eric Porter and Phil Sundbaum.

### Cromoly rigid dirt jump specific fork

Keeping it simple and efficient, we chose a heat-treated, full-cromoly rigid fork for the Steel Reserve 1.1. This is the same style 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 x 12 microdrive gearing from the BMX guys as well.

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### 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 8

### **4130 double-butted cromoly frame with ISCG mounts and vertical 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 Haro-sponsored pro athletes Eric Porter and Phil Sundbaum.

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

The Dirt Jumper is the only 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 4130 cromoly tubular cranks with Syncros chainguide**

These are the same cranks we use on our BMX bikes. They are bombproof and designed to take the abuse. Syncros chainguide helps keep your chain in place.

### **SRAM X.9 8-speed rear derailleur; short cage**

The SRAM name means ultra-crisp and precise shifting. Light and durable. The X.9 rear derailleur is based on the same technology as the X.0 but made more affordably.

### **Avid BBDB 5 mechanical disc brakes**

Avid BB5's are among the best mechanical disc brakes available. They offer killer modulation, easy set-up, and low maintenance.







## Thread 1.2

**7005 aluminum dirt jump/park-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 Haro-sponsored pro athlete Eric Porter. 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 travel 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.

**Truvativ Ruktion 1.0 cranks with PC bash ring**

The Truvativ Ruktion cranks are all about durability. Crafted from high-pressure cast alloy, you are likely to fold before your cranks do. Bash ring helps protect your drivetrain.

**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.





cherry cola



## Thread 1.1

**7005 aluminum dirt jump/park-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 Haro-sponsored pro athlete Eric Porter. We used e.thirteen's proven sliding drop out system to keep your rear wheel exactly where you want it.

**4130 cromoly rigid dirt jump specific fork**

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

**Truvativ ISO-Flow 1.0 cranks with PC bash ring**

The name Truvativ is synonymous with great looks and super shifting. Includes 34 tooth ring with PC bash ring to protect your drivetrain.

**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.

## Thread 8

**7005 aluminum dirt jump/park-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 Haro-sponsored pro athlete Eric Porter. 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 X.5 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.





## The Porter

### 6061 aluminum slopestyle-specific 4.5" travel frame with sealed bearing pivot

All-new Eric Porter signature slopestyle specific frame with 4.5" 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

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 (right only)

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.

### 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.

# The Porter

## New Shoot

### Metro Series

With all the emphasis on “going green” and reducing our carbon footprints, why not start riding a bike? Our Metro series makes bicycle commuting a breeze. With triple chain-rings up front, you’ll be able to tackle most any hill with ease. Tires with reflective sidewalls and a seatpost with a built-in blinking tail light help make you more visible to drivers in low-light conditions. When you have to venture off the dirt and onto the pavement, a Metro bike is a perfect choice for your urban adventure.











rubyism



## Metro Sanford

### Lightweight 6061 aluminum Metro series frame

Our lightweight 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.

### Carbon fork with alloy steerer

Carbon fiber works wonders to help dampen road vibrations plus it's light and stiff. We used an alloy steer tube on this fork to keep it as light as possible. Less overall bike weight=more efficient pedaling!

### Shimano Deore LX rear derailleur with Shimano R440 9-speed shifters

The Deore LX 9-speed drivetrain works flawlessly together for effortless, precise shifting. Durable, reliable, and efficient, Deore LX is the workhorse of the family.

### Alloy seatpost with built-in tail light

Truly unique! Our seatpost with a built-in blinking tail light has multiple flashing settings to keep you safe and visible to drivers! Replaceable battery for long life.

### 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.

## Metro Gomez

### Lightweight 6061 aluminum Metro series frame; disc brake specific

Our disc brake specific lightweight 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.

### Shimano Deore rear derailleur with Shimano 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.

### 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!

### Alloy seatpost with built-in tail light

Truly unique! Our seatpost with a built-in blinking tail light has multiple flashing settings to keep you safe and visible to drivers! Replaceable battery for long life.

### 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.





snowflake

sasparilla



## Metro Roscoe

### Lightweight 6061 aluminum Metro series frame

Our lightweight 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.

### Shimano Deore rear derailleur with Shimano 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.

### Alloy seatpost with built-in tail light

Truly unique! Our seatpost with a built-in blinking tail light has multiple flashing settings to keep you safe and visible to drivers! Replaceable battery for long life.

### 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.

## Metro Amos

### Lightweight 6061 aluminum Metro series frame

Our lightweight 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.

### Shimano 8-speed EasyFire shifters with a Shimano Alivio rear derailleur

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

### WTB Street Smart Rocket V saddle

New, ultra comfortable commuting-specific saddle from WTB made with a softer foam insert, a smoother fabric cover, and reflective material.

### Tektro direct-pull brakes with linear spring

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

### 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.

## Comfort [Series](#)

Comfort. When you hear this word, a bicycle might not be the first thing that pops into your mind. Our Heartland and Express series bikes were created to change that way of thinking. We started with a lightweight aluminum frame that offers a comfortable, upright riding position and outfitted each one with a cushy seat, a front suspension fork, and a suspension seatpost. Available with 26" wheels or 700c wheels, each Haro comfort bike is the perfect choice to pedal your favorite bike path or explore your neighborhood on. Exercise has never been more enjoyable or this comfortable.











## Heartland LTD

**Lightweight 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 make 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 NEX-4110 63mm travel fork w/preload adjust**

With over 20 years of experience, SR Suntour delivers exceptional value and great performance. 63mm of travel really smoothes out the bumps. Preload will allow you to tune the fork to your weight.

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

Reliable and precise shifting from the global leaders in bicycle components. Designed for years of hassle-free shifting performance.

**Haro Comfort Extra 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?

## Heartland Deluxe

**Lightweight 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 make 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 Acera rear derailleur with Shimano Revo 8-speed twist shifters**

Crisp, reliable shifting from the brand you can trust. Shimano's Revo twist shifters are easy to use.

**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?





## Heartland Sport

**Lightweight 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 make 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.

### SRAM MRX 7-speed twist shifters with a Shimano Tourney rear derailleur

SRAM twist shifters make shifting easy! A Shimano Tourney 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

**Lightweight 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 make 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 rear derailleur with SRAM MRX 7-speed twist shifter; right hand only

SRAM 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?



## Express LE

### Lightweight 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 make 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 NEX-4110 63mm travel fork w/preload adjust

Backed by over 20 years of experience, SR Suntour delivers exceptional value and great performance. 63mm of travel really smoothes out the bumps. Preload will allow you to tune the fork to your weight.

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

Reliable and precise shifting from the global leaders in bicycle components. Designed for years of hassle-free shifting performance.

### Haro Comfort Plush saddle with suspension seatpost

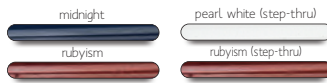
Dedicated to finding the most comfortable saddle, we tested many materials and shapes before finding the right combination for our Comfort Plush saddles. A suspension seatpost makes it even more comfortable.

### Alloy adjustable 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 Deluxe

**Lightweight 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 make 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 with Shimano Revo 8-speed twist shifters**

Crisp, reliable shifting from the brand you can trust. Shimano's Revo twist shifters are easy to use.

### **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

**Lightweight 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 make 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.

### **SRAM MRX 7-speed twist shifters with a Shimano Tourney rear derailleur**

SRAM twist shifters make shifting easy! A Shimano Tourney rear derailleur gives you years of worry-free performance.

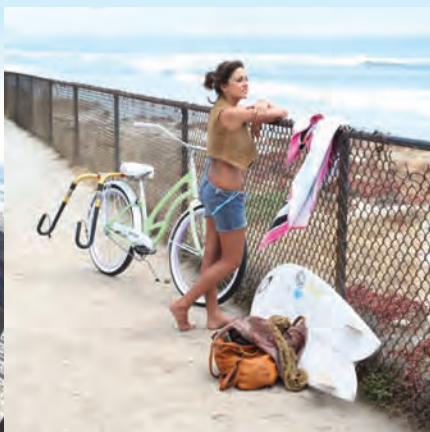
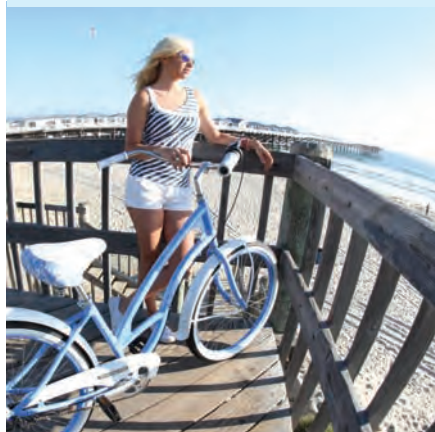
### **Haro Comfort Plush saddle**

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?

Whether you cruise your local boardwalk at the beach, ride to school, pedal the bike path, or zip around your neighborhood, nothing makes you feel more like a kid again than riding a beach cruiser. Our Zimzala and Tradewind cruisers are fun, fresh, comfy, and packed with personality. With bold paint, custom-made seat and grips, and colorful anodized parts, each cruiser is as unique as you are. Come on, put on some shorts and flip flops. It's time to have some fun and take a little two-wheeled time out.







black cat

scarlet fever



## Zimzala Buster

### **Rust-free 6061 aluminum Zimzala cruiser frame**

Lightweight and rust free! Think weight isn't important for a beach cruiser? We'd be willing to bet you'll think twice after you try to lug a heavy steel bike up a set of stairs or load it on to your car's bike rack.

### **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. Shimano reliability.

### **3-piece alloy crankset with sealed mechanism bottom bracket**

Alloy means no rust so your bike will look great for years. The sealed mechanism bottom bracket keeps moisture, sand, and crud out of one of the most sensitive areas of your bicycle frame.

### **Rust-free, lightweight aluminum rims**

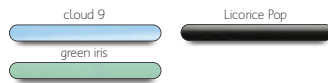
The rims on our Zimzala cruisers are painted or anodized aluminum, so they will never rust. Plus, they are as light as a feather.

### **Resin cruiser pedals with Kraton rubber inserts**

Lightweight, safe, and easy to grip. Makes pedaling a breeze even if you are barefoot!







## Zimzala Maude

### **Rust-free 6061 aluminum Zimzala cruiser frame**

Lightweight and rust free! Think weight isn't important for a beach cruiser? We'd be willing to bet you'll think twice after you try to lug a heavy steel bike up a set of stairs or load it on to your car's bike rack.

### **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. Shimano reliability.

### **3-piece alloy crankset with sealed mechanism bottom bracket**

Alloy means no rust so your bike will look great for years. The sealed mechanism bottom bracket keeps moisture, sand, and crud out of one of the most sensitive areas of your bicycle frame.

### **Rust-free, lightweight aluminum rims**

The rims on our Zimzala cruisers are painted or anodized aluminum, so they will never rust. Plus, they are as light as a feather.

### **Resin cruiser pedals with Kraton rubber inserts**

Lightweight, safe, and easy to grip. Makes pedaling a breeze even if you are barefoot!





## Zimzala Cooper

### **Rust-free 6061 aluminum Zimzala cruiser frame**

Lightweight and rust free! Think weight isn't important for a beach cruiser? We'd be willing to bet you'll think twice after you try to lug a heavy steel bike up a set of stairs or load it on to your car's bike rack.

### **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!

### **3-piece alloy crankset with sealed mechanism bottom bracket**

Alloy means no rust so your bike will look great for years. The sealed mechanism bottom bracket keeps moisture, sand, and crud out of one of the most sensitive areas of your bicycle frame.

### **Rust-free, lightweight aluminum rims**

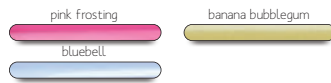
The rims on our Zimzala cruisers are painted or anodized aluminum, so they will never rust. Plus, they are as light as a feather.

### **Resin cruiser pedals with Kraton rubber inserts**

Lightweight, safe, and easy to grip. Makes pedaling a breeze even if you are barefoot!







## Zimzala Molly

### **Rust-free 6061 aluminum Zimzala cruiser frame**

Lightweight and rust free! Think weight isn't important for a beach cruiser? We'd be willing to bet you'll think twice after you try to lug a heavy steel bike up a set of stairs or load it on to your car's bike rack.

### **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!

### **3-piece alloy crankset with sealed mechanism bottom bracket**

Alloy means no rust so your bike will look great for years. The sealed mechanism bottom bracket keeps moisture, sand, and crud out of one of the most sensitive areas of your bicycle frame.

### **Rust-free, lightweight aluminum rims**

The rims on our Zimzala cruisers are painted or anodized aluminum, so they will never rust. Plus, they are as light as a feather.

### **Resin cruiser pedals with Kraton rubber inserts**

Lightweight, safe, and easy to grip. Makes pedaling a breeze even if you are barefoot!

top brass

rubyism



## Tradewind Marley

### **Rust-free 6061 aluminum Tradewind cruiser frame**

This is the same frame we use on our popular Zimzala series beach cruisers, but made with a more affordable parts package. Who says fun has to be expensive? And since this frame is made of aluminum, it's light and rust-free!

### **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**

No-fuss aluminum rims in either anodized black or burnished silver, depending on model. Since they are made of aluminum, you can count on them looking great for years to come.







## Tradewind Shae

### Rust-free 6061 aluminum Tradewind cruiser frame

This is the same frame we use on our popular Zimzala series beach cruisers, but made with a more affordable parts package. Who says fun has to be expensive? And since this frame is made of aluminum, it's light and rust-free!

### 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

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### Kenda Cruiser tires

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### Rust-free, lightweight aluminum rims

No-fuss aluminum rims in either anodized black or burnished silver, depending on model. Since they are made of aluminum, you can count on them looking great for years to come.



swamp thing

black friday



## Tradewind Ollie

### **Rust-free 6061 aluminum Tradewind cruiser frame**

This is the same frame we use on our popular Zimzala series beach cruisers, but made with a more affordable parts package. Who says fun has to be expensive? And since this frame is made of aluminum, it's light and rust-free!

### **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**

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### **Kenda Cruiser tires**

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### **Rust-free, lightweight aluminum rims**

No-fuss aluminum rims in either anodized black or burnished silver, depending on model. Since they are made of aluminum, you can count on them looking great for years to come.







## Tradewind Judith

### **Rust-free 6061 aluminum Tradewind cruiser frame**

This is the same frame we use on our popular Zimzala series beach cruisers, but made with a more affordable parts package. Who says fun has to be expensive? And since this frame is made of aluminum, it's light and rust-free!

### **Shimano 3-speed internal geared coaster brake rear hub**

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### **Kenda Cruiser tires**

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### **Rust-free, lightweight aluminum rims**

No-fuss aluminum rims in either anodized black or burnished silver, depending on model. Since they are made of aluminum, you can count on them looking great for years to come.

Beach cruisers are a dime a dozen these days. With so many colors, themes, and models it seems like the more different they try to be, the more they seem the same. When we designed our Railer beach cruisers, we took a good, hard look at our heritage and drew upon our BMX roots. Railers are unlike any cruiser on the market today with sporty looks and BMX-inspired forks, stems, bars, and chainrings. Cool. Casual. Hip. Sporty. There are a lot of ways to describe a Railer; but it can't be done with words alone. You need to experience a Railer:









## Railer SS

### **Rust-free 6061 aluminum Railer sport cruiser frame with built-in bottle opener**

Lightweight sport cruiser inspired by years of building BMX bikes. Each Railer frame is a little shorter than a traditional beach cruiser making it nimble and quick. Built-in bottle opener just in case you get thirsty along the ride (men's frame only).

### **Singlespeed rear freewheel hub with mechanical disc brake**

Just because it's hard to get rad with a coaster brake, we put a freewheel and a mechanical disc brake on the Railer SS.

### **3-piece alloy crankset with sealed mechanism bottom bracket**

Alloy means no rust so your bike will look great for years. The sealed mechanism bottom bracket keeps moisture, sand, and crud out of one of the most sensitive areas of your bicycle frame.

### **Wide custom Haro Railer handlebars**

We made these sporty handlebars to our specification, so you won't see them on anybody else's cruisers! These bars are tall and wide, so they put you in the perfect cruising position. Super comfortable!

### **Kenda K-Rad tires**

The perfect smooth rolling tire for a sport cruiser! The Kenda K-Rad tires have been a favorite among BMX riders for years so why wouldn't we put them on a BMX-inspired beach cruiser?







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### **Kenda K-Rad tires**

The perfect smooth rolling tire for a sport cruiser! The Kenda K-Rad tires have been a favorite among BMX riders for years so why wouldn't we put them on a BMX-inspired beach cruiser?



## Railer XS

**Rust-free 6061 aluminum Railer sport cruiser frame with built-in bottle opener**  
Lightweight sport cruiser inspired by years of building BMX bikes. Each Railer frame is a little shorter than a traditional beach cruiser making it nimble and quick. Built-in bottle opener just in case you get thirsty along the ride (men's frame only).

**Shimano 3-speed internal geared roller 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 roller brake keeps your ride simple.

**3-piece alloy crankset with sealed mechanism bottom bracket**  
Alloy means no rust so your bike will look great for years. The sealed mechanism bottom bracket keeps moisture, sand, and crud out of one of the most sensitive areas of your bicycle frame.

**Wide custom Haro Railer handlebars**  
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**Kenda K-Rad tires**  
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yellereen

black orchid



## Railer XS

### **Rust-free 6061 aluminum Railer sport cruiser frame**

Lightweight sport cruiser inspired by years of building BMX bikes. Each Railer frame is a little shorter than a traditional beach cruiser making it nimble and quick.

### **Shimano 3-speed internal geared roller brake rear hub**

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### **3-piece alloy crankset with sealed mechanism bottom bracket**

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### **Wide custom Haro Railer handlebars**

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### **Kenda K-Rad tires**

The perfect smooth rolling tire for a sport cruiser! The Kenda K-Rad tires have been a favorite among BMX riders for years so why wouldn't we put them on a BMX-inspired beach cruiser?

Frame	Flightline 6061 T6 oversize aluminum w/ double butted DT/TT/ST	Flightline 6061 T6 oversize aluminum	Flightline 6061 T6 oversize aluminum	Flightline 6061 T6 oversize aluminum
Sizes	14", 16", 18", 20"	14", 16", 18", 20", 22"	14", 16", 18", 20", 22"	14", 16", 18", 20", 22"
Frame Shock	N/A	N/A	N/A	N/A
Colors	Black	Sharkskin	SG Black, Fools Gold	Acid Green, Lapis Blue
Fork	RockShox Dart 3; 100mm Travel w/ preload adjust & TurnKey lockout	RockShox Dart 2; 100mm travel w/ preload adjust & TurnKey lockout	SR Suntour XCM-HLO; 100mm travel w/ preload adjust & lockout	SR Suntour XCT; 75mm travel w/ preload adjust
Headset	Ritchey Logic V2	Ritchey LB	Aheadset OS	Aheadset OS
<b>Drivetrain Components</b>				
Crank Set	Shimano M442 Octalink 22/32/44	Truvativ ISO Flow 3.0 22/32/44	SR Suntour CW-XCC 22/32/44	SR Suntour CW-XCC 22/32/44
Bottom Bracket	Shimano Octalink ES-25	Truvativ sealed cartridge	Sealed cartridge	Sealed cartridge
Deraillieur Front	Shimano Deore	Shimano Deore	Shimano M190A	Shimano M190A
Deraillieur rear	Shimano XT Shadow	Shimano SLX Shadow	Shimano Alivio	Shimano Acera
Freewheel	Shimano HG50 9-speed 11-34	SRAM PG950 9-speed 11-32	Shimano HG40 8-speed 11-32	Shimano HG40 8-speed 11-32
Chain	Shimano HG73	Shimano HG53	Shimano HG50	Shimano HG50
Pedals	Shimano M505 clipless	ATB caged; nylon body/ steel cage	ATB caged; nylon body/ steel cage	ATB caged; nylon body/ steel cage
<b>Control Center Components</b>				
Handlebar	Ritchey riser bar 25mm rise; 630mm width; 31.8mm clamp	Pivit alloy riser bar; 25mm rise; 630mm width; 31.8mm clamp	Pivit riser bar; 25mm rise; 630MM width; 31.8MM clamp	Pivit riser bar; 25mm rise; 630mm width; 31.8mm clamp
Stem	Pivit alloy clamp on 7 deg; 31.8mm clamp	Pivit alloy clamp on 7 deg; 31.8mm clamp	Pivit alloy clamp on 7 deg; 31.8mm clamp	Pivit alloy clamp on 7 deg; 31.8mm clamp
Grips	WTB Moto grip	Dual density	Dual density	Dual density
Deraillieur Shifter	Shimano Deore Rapid Fire Plus 9-speed	Shimano Deore Rapid Fire Plus 9-speed	Shimano EF50 8-speed	Shimano EF50 8-speed
Saddle	WTB Rocket V Comp	WTB Speed V Sport SE	Pivit	Pivit
Seat Post	Pivit alloy micro adjust 30.9mm	Pivit alloy micro adjust 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	Pivit alloy QR
<b>Wheelset Components</b>				
Hubset	Pivit disc ; Shimano M475 9 speed cassette; 32h QR	Pivit disc alloy 9 speed cassette; 32h QR	Pivit disc 8/9 speed cassette; 32h QR	Pivit disc 8/9 speed cassette; 32h QR
Rim	WTB SX24 32h	Weinmann XTB 24 double wall w/ eyelets	Weinmann ZAC 19 32h double wall	Weinmann ZAC 19 32h double wall
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda Small Block Eight 2.1"	Kenda Komodo 2.1"	Kenda Klaw 2.1"	Kenda Klaw 2.1"
<b>Brake Components</b>				
Brakes	Shimano M486 hydraulic disc w/ 6" rotors	Hayes MX4 mechanical disc w/ 6" rotors	Tektro IO mechanical disc w/ 6" rotors	Promax 320 mechanical disc w/ 6" rotors
Brake Lever	Shimano M486	Avid FR5	Shimano EF50	Shimano EF50
Frame	Flightline 6061 T6 alloy lower profile	4130 double butted crmo steel w/ eccentric BB	4130 double butted crmo steel	Ally 6061 T6 oversize aluminum w/ double butted DT
Sizes	10"	16", 18", 20"	16", 18", 20"	16", 18", 20"
Frame Shock	N/A	N/A	N/A	N/A
Colors	Gloss Black, Firecracker Red, Blue Bell, Pink Pink	The New Black	Brown Sugar	Matte Black Modern, Matte Black Classic
Fork	SR Suntour M3000AL; 30mm travel	Suspension corrected crmo rigid	Marzocchi 44 TST2; 80mm travel; TST2 damping; 15mm thru axle	RST M29 Pro ; lockout, rebound and preload adjust
Headset	Aheadset OS	Ritchey Logic V2	Ritchey Logic V2	Ritchey LB
<b>Drivetrain Components</b>				
Crank Set	Forged alloy 40t w/ double guard 152mm	Truvativ Stylo 1.1G singlespeed w/32t ring	Truvativ Firex 3.2 GXP 22/32/44	Truvativ ISO Flow 3.0 22/32/44
Bottom Bracket	Sealed cartridge	Truvativ GXP	Truvativ GXP	Truvativ Sealed Cartridge
Deraillieur Front	N/A	N/A	Shimano Deore	Shimano Deore
Deraillieur rear	Shimano Tourney	N/A	Shimano XT Shadow	Shimano Deore
Freewheel	Shimano 6-speed 14-28 Freewheel	20t cog	Shimano HG61 9-speed 12-36	Shimano HG50 9-speed 11-32
Chain	Shimano UG51	KMC Z-610HX	Shimano HG53	Shimano HG53
Pedals	Nylon ATB	ATB caged; nylon body/ steel cage	Shimano M505 clipless	ATB caged; nylon body/ steel cage
<b>Control Center Components</b>				
Handlebar	Pivit riser Bar 30mm rise	Ritchey Pro 10 degree bar; 660mm width; 31.8mm clamp	Ritchey Pro 10 degree bar; 660mm width; 31.8mm clamp	Pivit riser bar; 25mm rise; 630mm width; 25.4mm clamp
Stem	Pivit alloy clamp-on 15 degree	Ritchey Pro 4-Axis; 6 deg; 31.8mm clamp	Ritchey Pro 4-Axis; 6 deg; 31.8mm clamp	Pivit alloy clamp on 7 deg; 25.4mm clamp
Grips	Dual density	WTB Moto grip	WTB Moto grip	WTB Moto grip
Deraillieur Shifter	SRAM MRX 6-speed	N/A	Shimano Deore Rapid Fire Plus 9-speed	Shimano Deore Rapid Fire Plus 9-speed
Saddle	Pivit Jr. size	WTB Rocket V Comp crmo rails	WTB Rocket V Comp crmo rails	WTB Speed V Sport SE
Seat Post	Alloy micro adjust 27.2mm	Ritchey alloy 31.6mm	Ritchey Pro V2 31.6mm	Pivit alloy micro adjust 30.9mm
Seat Post Clamp	Pivit alloy QR	Pivit Race Lite	Pivit Race Lite	Pivit alloy QR
<b>Wheelset Components</b>				
Hubset	Alloy 32h nutted w/ rear guard	Pivit disc; cassette singlespeed rear 32h	Pivit 15 thru axle front ; Shimano M529 HD rear	Pivit disc alloy 9 speed cassette; 32h QR
Rim	Alloy black anodized w/brushed sidewalls	WTB Laser disc Trail 29" 32h	WTB Laser disc Trail 29" 32h	WTB FX 28 29" 32h
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda 831A 2.1"	Kenda Nevegal 2.2" Stick-e rubber	Kenda Nevegal 2.2" Stick-e rubber	Kenda Nevegal 2.2" Stick-e rubber
<b>Brake Components</b>				
Brakes	Alloy direct pull w/ linear spring	Avid BBDB 5 mechanical disc w/160mm rotors	Avid BBDB 5 mechanical disc w/160mm rotors	Hayes MX4 mechanical disc w/ 6" rotors
Brake Lever	Tektro	Avid FR5	Avid FR5	Tektro alloy



Flightline Three	Flightline Two	Flightline One	Flightline 24
Flightline 6061 T6 oversize aluminum	Flightline 6061 T6 oversize aluminum	Flightline 6061 T6 oversize aluminum	Flightline 6061 T6 alloy lower profile
14", 16", 18", 20", 22"	14", 16", 18", 20", 22"	Men's: 14", 16", 18", 20", 22" Step-Thru: 14", 17"	12"
N/A	N/A	N/A	N/A
SG Black, Faux Pearl	Midnight, Bright Silver, Harlot Red	Rubyism, Big Blue, Gloss Black Step Thru: Rubyism, Pearl White	Gloss Black, Big Blue, Bluebell, Pink Pink
SR Suntour XCT; 75mm travel w/ preload adjust	SR Suntour M3000AL; 75mm travel	Pivit; 50mm travel	SR Suntour M3000AL; 50mm travel
Aheadset OS	Aheadset OS	Aheadset OS	Aheadset OS
SR Suntour CW-XCC 22/32/44	SR Suntour CW-XCC 22/32/44	Forged alloy 3pc 24/34/42	SR Suntour XCC 22/32/42 160mm
Sealed cartridge	Sealed cartridge	Sealed cartridge	Sealed cartridge
Shimano M190A	Shimano M190A	Shimano M190A	Shimano TY10
Shimano Acera	Shimano Altus	Shimano Tourney	Shimano Toumey
Shimano HG40 8-speed 11-32	Sunrace M63 7-speed 11-34	Sunrace 7-speed 13-28 Freewheel	Shimano 7-speed 14-28 Freewheel
Shimano HG50	Shimano UG51	KMC Z50	Shimano UG51
ATB caged; nylon body/ steel cage	Nylon ATB	Nylon ATB	Nylon ATB
Pivit riser bar; 25mm rise; 630mm width; 31.8mm clamp	Pivit riser bar; 25mm rise; 630mm width; 31.8mm clamp	Pivit riser bar; 25mm rise; 630mm width; 31.8mm clamp	Pivit riser Bar 30mm rise
Pivit alloy clamp on 7 deg; 31.8mm clamp	Pivit alloy clamp on 7 deg; 31.8mm clamp	Pivit alloy clamp on 7 deg; 31.8mm clamp	Pivit alloy clamp-on 15 degree
Dual density	Dual density	Dual density	Dual density
Shimano EF50 8-speed	Shimano EF50 7-speed	SRAM MRX 7-speed	SRAM MRX 7-speed
Pivit	Pivit	Pivit	Pivit Jr. size
Pivit alloy micro adjust 30.9mm	Pivit alloy micro adjust 30.9mm	Pivit alloy 30.9mm	Alloy micro adjust 27.2mm
Pivit alloy QR	Pivit alloy QR	Pivit alloy QR	Pivit alloy QR
Pivit alloy 8 speed cassette; 32h QR	Pivit alloy 7 speed cassette; 32h QR	Pivit alloy 36h freewheel QR	Alloy 32h nutted w/ rear guard
Weinmann ZAC 19 32h double wall	Alloy black anodized w/brushed sidewalls	Alloy black anodized	Alloy black anodized w/brushed sidewalls
Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Kenda 831A 2.1"	Kenda 831A 2.1"	Kenda 831A 2.1"	Kenda 831A 2.1"
Tektro direct pull w/ linear spring	Tektro direct pull w/ linear spring	Alloy direct pull w/ linear spring	Alloy direct pull w/ linear spring
Shimano EF50	Tektro	Tektro	Tektro
Beasley XC	Beasley 1x9	Beasley SS	Sonix Expert
4130 double butted crmo steel	4130 double butted crmo steel	4130 double butted crmo steel w/ eccentric BB	Virtual Link Suspension featuring patented VL120 technology designed for 100mm fork
14", 16", 18", 20", 22"	14", 16", 18", 20", 22"	14", 16", 18", 20", 22"	14", 16", 18", 20"
N/A	N/A	N/A	RockShox Monarch 3.3
Snowflake	Cherry Cola	Black Gold	Brown Sugar
Whitie Brothers Fluid; 100mm travel	Suspension corrected crmo rigid	Suspension corrected crmo rigid	RockShox SID race; 100mm travel
Ritchey Logic V2	Ritchey Logic V2	Ritchey Logic V2	Ritchey Pro Logic V2
Truvativ Stylo 3.3 22/32/44	Truvativ Stylo 1.1G singlespeed w/32t ring	Truvativ Fire-X 1.1G singlespeed w/33t ring	Shimano SLX 22/32/44
Truvativ GXP	Truvativ GXP	Truvativ GXP	Shimano SLX external bearing
Shimano Deore	N/A	N/A	Shimano Deore
Shimano XT Shadow	Shimano XT Shadow	N/A	Shimano XTR Shadow carbon cage
Shimano SLX 9-speed 11-34	Shimano HG50 9-speed 11-34	17t cog	Shimano SLX 9-speed 11-34
Shimano HG53	Shimano HG53	KMC Z-610HX	Shimano HG73
Shimano M520 clipless	Wellgo platform	Wellgo platform	Shimano M520 clipless
Ritchey Pro 10 degree bar; 660mm width; 31.8mm clamp	Ritchey Comp riser bar 25mm Rise; 630mm width; 31.8mm clamp	On-One Mary	Ritchey Pro riser; 30mm rise; 620mm wide; 31.8mm clamp
Ritchey Pro 4-Axis; 6 degree; 31.8mm clamp	Ritchey Comp; 6 degree; 31.8mm clamp	Ritchey Comp; 6 degree; 31.8mm clamp	Ritchey Pro; 6 degree; 31.8mm clamp
WTB Moto grip	WTB Moto grip	WTB Moto grip	WTB Moto grip
Shimano Deore Rapid Fire Plus 9-speed	Shimano LX 9-speed right only	N/A	Shimano SLX RapidFire Plus 9-speed
WTB Rocket V Comp crmo rails	WTB Rocket V Comp crmo rails	WTB Rocket V Comp crmo rails	WTB Rocket V Comp crmo rails
Ritchey Pro V2 31.6mm	Ritchey alloy 31.6	Ritchey alloy 31.6mm	Ritchey Pro V2 30.9mm
Pivit Race Lite	Pivit Race Lite	Pivit Race Lite	Pivit Race Lite
Pivit disc alloy 9 speed cassette; 32h QR	Shimano RM65 Centerlock	Pivit disc; cassette singlespeed rear 32h	Shimano M535 Centerlock
WTB Laser Disc Trail 650b 32h	Weinmann Discovery 650b	Weinmann Discovery 650b	WTB Speed Disc XC
Stainless steel 14g w/ alloy nipples	Stainless steel 14g w/ alloy nipples	Stainless steel 14g w/ alloy nipples	Stainless steel 14g
Kenda Nevegal 2.1" Stick-e rubber	Pacenti Neo-Moto 2.3"	Pacenti Neo-Moto 2.3"	Kenda Small Block Eight 2.1"
Hayes Stroker Ryde hydraulic disc w/ 6" rotors	Shimano M486 hydraulic disc w/ 160mm Centerlock rotors	Avid BBDB 5 mechanical disc w/160mm rotors	Shimano SLX hydraulic disc w/ 160mm Centerlock rotors
Hayes Stroker hydraulic	Shimano M486 hydraulic	Avid FR5	Shimano SLX

## Sizes Specifications

Frame	Virtual Link Suspension featuring patented VL120 technology designed for 100mm fork 14", 16", 18", 20"	Virtual Link Suspension featuring patented VL120 technology designed for 100mm fork 14", 16", 18", 20"	Virtual Link Suspension featuring patented VL120 technology designed specifically for 650b wheels 14", 16", 18", 20"	Virtual Link Suspension featuring patented VL160 technology designed for 140mm fork 14", 16", 18", 20"
Sizes				
Frame Shock	FOX Float R	RockShox Bar 2.1	RockShox Monarch 3.3	RockShox Monarch 3.3
Colors	Humboldt Green	Faux Pearl	Lapis Blue	Rubyism
Fork	FOX 32 FR 100mm travel	Marzocchi 33R 100mm travel	White Brothers Fluid; 120mm travel	Marzocchi 44ATA 140mm w/ alloy steerer; Air Travel Adjust; 15mm thru axle
Headset	Ritchey Pro Logic V2	Ritchey LB Plus	Ritchey Comp Logic V2	Syncros Hardcore
<b>Drivetrain Components</b>				
Crank Set	Truvativ Fire-X 3.3 22/32/44	Truvativ Fire-X 3.0 22/32/44	Truvativ Firex 3.2 GXP 22/32/44	Truvativ Stylo 3.2 GXP 22/32/44
Bottom Bracket	Truvativ GXP	Truvativ GXP	Truvativ GXP	Truvativ GXP
Deraillieur Front	Shimano Deore	Shimano Deore	Shimano Deore	Shimano Deore
Deraillieur rear	Shimano XT Shadow	Shimano SLX Shadow	Shimano XT Shadow	SRAM X.9
Freewheel	Shimano HG50 9-speed 11-34	Shimano HG50 9-speed 11-34	Shimano HG61 9-speed 11-34	Shimano HG50 9-speed 11-34
Chain	Shimano HG73	Shimano HG53	Shimano HG73	SRAM PC-951
Pedals	Shimano M520 clipless	Shimano M505 clipless	Shimano M520 clipless	Shimano M520 clipless
<b>Control Center Components</b>				
Handlebar	Ritchey Comp riser; 30mm rise; 620mm wide; 31.8mm clamp	Ritchey riser; 30mm rise; 620mm wide; 31.8mm clamp	Ritchey Comp riser; 35mm rise; 670mm wide; 31.8mm clamp	Syncros AM "Grunge" 40mm Rise 660mm width; 31.8mm clamp
Stem	Ritchey Comp; 6 degree; 31.8mm clamp	Ritchey; 6 degree; 31.8mm clamp	Ritchey Comp; 6 degree; 31.8mm clamp	Syncros AM "Grunge"; 31.8mm clamp
Grips	WTB Moto grip	WTB Moto grip	WTB Moto grip	WTB Moto grip
Deraillieur Shifter	Shimano Deore Rapid Fire Plus 9-speed	Shimano Deore Rapid Fire Plus 9-speed	Shimano Deore Rapid Fire Plus 9-speed	SRAM X.7 9-speed
Saddle	WTB Rocket V Comp crmo rails	WTB Rocket V Comp	WTB Rocket V Comp crmo rails	Syncros AM crmo rail
Seat Post	Ritchey Comp V2 30.9mm	Ritchey alloy 30.9mm	Ritchey Comp V2 30.9mm	Syncros Derived 30.9mm
Seat Post Clamp	Pivit Race Lite	Pivit Race Lite	Pivit Race Lite	Pivit Race Lite
<b>Wheelset Components</b>				
Hubset	Shimano M535 Centerlock	Pivit disc ; Shimano M475 9 speed cassette; 32h QR	Shimano M475 32h	Shimano M758 15mm thru front Shimano Deore M530 rear
Rim	WTB Speed Disc XC	WTB Speed Disc XC	WTB Laser Disc Trail 650b 32h	WTB Speed Disc AllMtn 32h
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda Small Block Eight 2.1"	Kenda Small Block Eight 2.1"	Kenda Small Block Eight 2.1"	Kenda Nevegal 2.35" w/ Stick-E rubber
<b>Brake Components</b>				
Brakes	Shimano M575 hydraulic w/ 160mm Centerlock rotors	Shimano M486 hydraulic w/ 160mm rotors	Hayes Stroker hydraulic disc w/160mm rear 180mm front rotors	Avid Juicy 5 hydraulic w/ 185mm rotors
Brake Lever	Shimano M575 hydraulic	Shimano M486 hydraulic	Hayes Stroker hydraulic	Avid Juicy 5 hydraulic
Frame	4130 double butted crmo w/ BMX inspired horizontal drop outs / integrated headtube	4130 double butted crmo w/ BMX inspired horizontal drop outs / integrated headtube	4130 double butted crmo w/ BMX inspired horizontal drop outs	4130 double butted crmo w/ ISCG integrated mount and vertical drop outs
Sizes	13" Short , 13" Long	13" Short , 13" Long	13" Short , 13" Long	13" Short , 13" Long
Frame Shock	N/A	N/A	N/A	N/A
Colors	Double Platinum	Smurfy Blue	Gloss Black	Pea Soup
Fork	Marzocchi Dirt Jumper 2; 20mm thru axle 80mm travel	SR Suntour DJ-D 80mm travel; preload adjust	Suspension corrected crmo rigid 4130 heat treated	Marzocchi Dirt Jumper 2; 20mm thru axle 80mm travel
Headset	Ritchey Pro drop in internal	Ritchey drop in internal	Aheadset OS	Ritchey drop in internal
<b>Drivetrain Components</b>				
Crank Set	4130 tubular crmo 10 spline interface w/ Haro alloy 25T chainwheel	4130 tubular crmo 8 spline interface w/ Haro alloy 25T chainwheel	4130 tubular crmo 8 spline interface w/ Haro steel 25T chainwheel	4130 tubular crmo 10 spline interface w/ e.thirteen 32t crownwheel
Bottom Bracket	Euro sealed	Euro sealed	Euro sealed	Euro sealed
Deraillieur Front	N/A	N/A	N/A	Syncros Chainguide
Deraillieur rear	N/A	N/A	N/A	SRAM X.9 composite short cage
Freewheel	12t cog	12t cog	12t cog	SRAM PG850 8-speed 11-28
Chain	KMC Z-610HX	KMC Z-410	KMC Z-410	Shimano HG40
Pedals	Pivit Featherlite w/ replaceable pins	Pivit Platform w/ replaceable pins	Pivit Platform w/ replaceable pins	Pivit Platform w/ replaceable pins
<b>Control Center Components</b>				
Handlebar	Syncros FR riser bar; 40mm rise 710mm width; 31.8mm clamp	Syncros riser bar; 30mm rise; 670mm width; 31.8mm clamp	Pivit riser bar; 25mm rise; 630mm width; 31.8mm clamp	Syncros FR riser bar; 40mm rise 710mm width; 31.8mm clamp
Stem	Syncros FR; 50mm ext; 31.8mm clamp	Pivit; 50mm ext; 31.8mm clamp	Pivit; 50mm extension; 31.8mm clamp	Syncros FR; 50mm ext; 31.8mm clamp
Grips	SDG lock on	Pivit BMX style	Pivit BMX style	SDG lock on
Deraillieur Shifter	N/A	N/A	N/A	SRAM X5 trigger shifter; 8 speed right side only
Saddle	SDG Patriot I-Beam	Pivit Slim; 8mm crmo rails	Pivit Slim; 8mm crmo rails	SDG Skylite I-Beam
Seat Post	SDG I Beam alloy micro adjust 25.4mm	Pivit steel 2 bolt 25.4mm	Pivit steel 2 bolt 25.4mm	SDG I Beam alloy micro adjust 25.4mm
Seat Post Clamp	Pivit alloy QR	Pivit alloy QR	Pivit alloy QR	Pivit alloy bolt on
<b>Wheelset Components</b>				
Hubset	Pivit disc alloy singlespeed cassette sealed 32h nutted ; Pivit 20mm sealed	Pivit disc alloy singlespeed cassette; 32h nutted F/R	Pivit disc alloy singlespeed cassette; 32h nutted F/R	Pivit sealed 120t driver disc alloy 8/9 Speed Cassette; Pivit 20mm sealed
Rim	Alienation 440 32h	Alienation PBR front; Black Sheep rear	Weinmann ZAC 19 double wall	SUN S.O.S 32h
Spokes	Stainless steel 14g	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"	Kenda Small Block 8 2.35F / Kinionity 2.3R
<b>Brake Components</b>				
Brakes	Hayes MX4 mechanical disc w/ 6" rotor rear only	Hayes MX4 mechanical disc w/ 6" rotor rear only	Tektro IO mechanical disc w/ 6" rotor rear only	Avid BBBD 5 mechanical disc w/ 6" rotors
Brake Lever	Tektro alloy	Tektro alloy	Tektro alloy	Avid FR5



Xeon	Shift R-5	Shift R-3	Shift R-1
Virtual Link Suspension featuring patented VL160 technology designed for 140mm fork	New Shift 6061 air formed aluminum; 120mm wheel travel	New Shift 6061 air formed aluminum; 120mm wheel travel	New Shift 6061 air formed aluminum; 120mm wheel travel
14", 16", 18", 20"	16", 18", 20", 22"	16", 18", 20", 22"	16", 18", 20", 22"
RockShox Monarch 3.1	RockShox Ario 2.1	RockShox Bar 2.1	X-Fusion Coil
Semi Gloss Black	Semi Gloss Black	Sasparilla	Bright Silver; Cherry Cola
Marzocchi 44TST2 140mm travel w/ 15mm thru axle	Marzocchi 33RLO 120mm travel; lockout	Marzocchi 22LO 120mm travel; lockout	Suntour XCR-LO 120mm travel; w/ lockout and preload adjust
Syncros Hardcore	Ritchey Logic V2	Ritchey Logic V2	Ritchey LB Plus
Truvativ Fire-X 3.0 22/32/44	Truvativ Fire-X 3.0 22/32/44	Truvativ ISO-Flow 3.0 22/32/44	Truvativ X-Flow 3.0 22/32/42
Truvativ GXP	Truvativ GXP	Truvativ Power Spline	Truvativ sealed cartridge
Shimano Deore	Shimano Deore	Shimano Deore	Shimano Alivio
SRAM X.7	Shimano XT Shadow	SRAM X.7	Shimano Alivio
Shimano HG50 9-speed 11-34	Shimano HG50 9-speed 11-34	Shimano HG50 9 speed 11-32	Shimano HG40 8 speed 11-32
SRAM PC-951	Shimano HG53	Shimano HG53	KMC Z72
ATB caged; nylon body/ steel cage	ATB caged; nylon body/ steel cage	ATB caged; nylon body/ steel cage	ATB caged; nylon body/ steel cage
Syncros AM "Grunge" 40mm Rise 660mm width; 31.8mm clamp	Ritchey Comp riser; 30mm rise; 660mm wide; 31.8mm clamp	Ritchey riser; 30mm rise; 660mm wide; 31.8mm clamp	Ritchey riser; 30mm rise; 660mm wide; 31.8mm clamp
Syncros AM "Grunge"; 31.8mm clamp	Ritchey Comp; 6 degree; 31.8mm clamp	Pivot alloy clamp on 7 deg; 31.8mm clamp	Pivot alloy clamp on 7 deg; 31.8mm clamp
WTB Moto grip	WTB Moto grip	Dual density	Dual density
SRAM X.5 9-speed	Shimano Deore Rapid Fire Plus 9-speed	SRAM X.5 9-speed	Shimano EF50 8-speed
WTB Pure V Race crmo rail	WTB Rocket V Comp	WTB Rocket V Comp	WTB Speed V Sport
Ritchey Comp V2 30.9mm	Ritchey Comp 30.9mm	Pivot alloy micro adjust 30.9mm	Pivot alloy micro adjust 30.9mm
Pivot Race Lite	Pivot alloy QR	Pivot alloy QR	Pivot alloy QR
Pivot 15mm thru front; Shimano M475 rear	Shimano M475 32h	Pivot disc front ; Shimano M475 9 speed cassette; 32h QR	Pivot disc alloy 8/9 speed cassette; 32h QR
WTB Speed Disc AIMtn 32h	WTB Speed Disc XC	Ritchey Girder XC	Ritchey Girder XC
Stainless steel 14g	Stainless steel 14g w/ alloy nipples	Stainless steel 14g	Stainless steel 14g
Kenda Nevegal 2.35" w/ Stick-E rubber	Kenda Small Block Eight 2.1"	Kenda Komodo 2.1"	Kenda Komodo 2.1"
Shimano M486 hydraulic w/ 180mm rotors	Shimano M486 hydraulic w/ 160mm rotors	Hayes MX4 mechanical disc w/ 160mm rotors	Tektro IO mechanical disc w/ 160mm rotors
Shimano M486	Shimano M486 hydraulic	Tektro alloy	Shimano
Thread 1.2	Thread 1.1	Thread Eight	Porter
Thread 7005 T6 oversize aluminum w/ e.thirteen designed adjustable dropout	Thread 7005 T6 oversize aluminum w/ e.thirteen designed adjustable dropout	Thread 7005 T6 oversize aluminum w/ e.thirteen designed adjustable dropout	Porter inspired slopestyle specific bike 6061 alloy 120mm wheel travel
13" Short , 13" Long	13" Short , 13" Long	13" Short , 13" Long	15" Short , 15" Long
N/A	N/A	N/A	FOX Float R
Black Velvet	White	Cherry Cola	Smurfy Blue
Marzocchi Dirt Jumper 3; 80mm travel	Suspension corrected crmo rigid 4130 heat treated	Marzocchi Dirt Jumper 3; 80mm travel	FOX Float 36 RC2; 100mm travel
Syncros Hardcore	Ritchey LB	Syncros Hardcore	FSA Orbit XL2
Truvativ Ruktion 1.0; 34t ring w/ PC bash ring	Truvativ ISO Flow 3.0; 34t ring	Truvativ Ruktion 1.0; 34t ring	Gravity Gap Mega EXO; 36t alloy ring
Truvativ Howitzer	Truvativ sealed cartridge	Truvativ Howitzer	Gravity Mega EXO
N/A	N/A	e.thirteen LG40 Guide	Gravity chain guide
N/A	N/A	SRAM X-5 med. cage	Shimano XT Shadow
16t cog	16t cog	SRAM PG850 8-speed 11-32	Shimano HG61 9-speed 11-28
KMC Z-610HX	KMC Z-410	KMC Z72	Shimano HG53
Pivot Platform w/ replaceable pins	Pivot Platform w/ replaceable pins	Pivot Platform w/ replaceable pins	Pivot Featherlite w/ replaceable pins
Syncros riser bar; 30mm rise; 670mm width; 31.8mm clamp	Pivot riser bar; 25mm rise; 630mm width; 31.8mm clamp	Syncros riser bar; 30mm rise; 670mm width; 31.8mm clamp	Gravity Maximus OS riser bar; 40mm rise; 710mm width; 31.8mm clamp
Pivot; 50mm extension; 31.8mm clamp	Pivot; 50mm extension; 31.8 clamp	Pivot; 50mm extension; 31.8mm clamp	Gravity GAP; 50mm extension; 31.8mm clamp
Pivot lock on	Pivot BMX style	Pivot lock on	Gravity lock on
N/A	N/A	SRAM X5 trigger shifter; 8 speed right side only	Shimano Deore Rapid Fire Plus 9-speed right side only
Pivot Slim; 8mm crmo rails	Pivot Slim; 8mm crmo rails	Pivot Slim; 8mm crmo rails	SDG Patriot I-Beam
Pivot alloy micro adjust 30.9mm	Pivot alloy micro adjust 30.9mm	Pivot alloy micro adjust 30.9mm	SDG I Beam alloy mirco adjust 30.9mm
Pivot alloy QR	Pivot alloy QR	Pivot alloy QR	Pivot alloy QR
Pivot disc alloy singlespeed cassette; 32h nutted F/R	Pivot disc alloy singlespeed cassette; 32h nutted F/R	Pivot disc alloy 9 speed cassette; 32h QR	Gravity
Alienation PBR front; Black Sheep rear	Weinmann XTB 24 double wall w/ eyelets	Alienation PBR front; Black Sheep rear	Gravity
Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Gravity
Kenda K-Rad 2.3"	Kenda K-Rad 2.3"	Kenda K-Rad 2.3"	Kenda Nevegal 2.35F / Small Block Eight 2.3R
Hayes MX4 mechanical disc w/ 6" rotors	Hayes MX4 mechanical disc w/ 6" rotor rear only	Hayes MX4 mechanical disc w/ 6" rotors	Hayes Stroker Ryde hydraulic disc w/ 6" rotors
Avid FR5	Tektro alloy	Avid FR5	Hayes Stroker hydraulic

Frame Components	Sanford	Gomez	Roscoe	Amos
Frame	Haro Metro 6061 T6 aluminum	Haro Metro 6061 T6 aluminum	Haro Metro 6061 T6 aluminum	Haro Metro 6061 T6 aluminum
Sizes	Men's: 14", 16", 18", 20", 22"	Men's: 14", 16", 18", 20", 22"	Men's: 14", 16", 18", 20", 22"	Men's: 14", 16", 18", 20", 22"
Frame Shock	N/A	N/A	N/A	N/A
Colors	Midnight Matte	Rubyism	Gloss Black	Sasparilla; Snowflake
Fork	Carbon V-brake w/ alloy steerer	Alloy disc w/ crmo steerer	Alloy V-brake w/ crmo steerer	Alloy V-brake w/ crmo steerer
Headset	Ritchey Pro Zero drop in	Ritchey Pro Zero drop in	Ritchey Pro Zero drop in	Ritchey Pro Zero drop in
Drivetrain Components				
Crank Set	FSA Vero 52/42/30	Truvativ ISO FLOW 48/36/26	Truvativ ISO-Flow 48/36/26	Truvativ X-Flow 48/36/26
Bottom Bracket	Sealed cartridge	Sealed cartridge	Sealed cartridge	Sealed cartridge
Deraillleur Front	Shimano R443	Shimano C051	Shimano C051	Shimano C051
Deraillleur rear	Shimano Deore LX	Shimano Deore	Shimano Deore	Shimano Alivio
Freewheel	Shimano HG50 9-speed 11-32	SRAM PG-830 8-speed 11-28	SRAM PG-830 8-speed 11-28	SRAM PG-830 8-speed 11-28
Chain	Shimano HG73	Shimano HG40	Shimano HG40	Shimano HG40
Pedals	Wellgo nylon body w/alloy cage + toe clip	Wellgo nylon body w/alloy cage + toe clip	Wellgo nylon body w/alloy cage + toe clip	Wellgo nylon body w/alloy cage + toe clip
Control Center Components				
Handlebar	Ritchey Comp flat bar; 600mm width; 31.8mm clamp	Ritchey flat bar; 600mm width; 31.8mm clamp	Ritchey flat bar; 600mm width; 31.8mm clamp	Ritchey flat bar; 600mm width; 31.8mm clamp
Stem	Ritchey 6 degree; 31.8mm clamp	Ritchey 6 degree; 31.8mm clamp	Ritchey 6 degree; 31.8mm clamp	Pivit alloy clamp on 7 deg; 31.8mm clamp
Grips	Dual density	Dual density	Dual density	Dual density
Deraillleur Shifter	Shimano R440 9-speed	Shimano M405 8-speed	Shimano M405 8-speed	Shimano EF50 8-speed
Saddle	WTB Rocket V Street Smart	WTB Rocket V Street Smart	WTB Rocket V Street Smart	WTB Rocket V Street Smart
Seat Post	Alloy 27.2mm w/ built-in taillight	Alloy 27.2mm w/ built-in taillight	Alloy 27.2mm w/ built-in taillight	Pivit alloy micro adjust 27.2mm
Seat Post Clamp	Pivit alloy bolt on	Pivit alloy bolt on	Pivit alloy bolt on	Pivit alloy bolt on
Wheelset Components				
Hubset	Shimano Alivio 32h	Pivit disc alloy 8/9 speed cassette; 32h QR	Pivit alloy 8/9 speed cassette; QR	Pivit alloy 8/9 speed cassette; QR
Rim	Ritchey Girder XC	Ritchey Girder XC	Ritchey Girder XC	Weinmann ZAC 19 double wall
Spokes	Stainless steel 14g w/ alloy nipples	Stainless steel 14g w/ alloy nipples	Stainless steel 14g w/ alloy nipples	Stainless steel 14g
Tires	Kenda KwikTrax 700x38c	Kenda KwikTrax 700x38c	Kenda KwikTrax 700x38c	Kenda KwikTrax 700x38c
Brake Components				
Brakes	Shimano Alivio	Hayes MX4 disc	Shimano Alivio	Tektro direct pull w/ linear spring
Brake Lever	Avid FR5	Shimano M405	Shimano M405	Shimano EF50

Frame Components	Express LE	Express Deluxe	Express Sport	Zimzala Buster / Maude
Frame	Express 6061 T6 aluminum	Express 6061 T6 aluminum	Express 6061 T6 aluminum	6061 T6 aluminum frame
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"	Men's 17"; Step-Thru 15"
Frame Shock	N/A	N/A	N/A	N/A
Colors	Men's: Gloss Black, Augusta Green Step-Thru: Twilight, Sterling Spearmint	Men's: Midnight, Rubyism; Step-Thru: Pearl White, Rubyism	Men's: Black, Clean Slate; Step-Thru: Clean Slate, Lilac	Buster - Black Cat, Scarlet Fever; Maude - Cloud 9, Green Iris, Licorice Pop
Fork	SR Suntour NEX-4110; 63mm Travel w/ preload adjust	SR Suntour CR-750; 50mm travel	Rigid hi-ten	Cruiser rigid
Headset	1 1/8" threaded	1 1/8" threaded	1 1/8" threaded	1" threaded steel
Drivetrain Components				
Crank Set	Shimano M151 28/38/48	Shimano M151 28/38/48	Forged alloy 3pc 24/34/42	3pc alloy w/ anodized 42t chain wheel
Bottom Bracket	Sealed cartridge	Sealed cartridge	Sealed cartridge	Sealed mechanism
Deraillleur Front	Shimano C102	Shimano C102	Shimano M190A	N/A
Deraillleur rear	Shimano Deore	Shimano Acera	Shimano Tourney	N/A
Freewheel	Shimano HG40 8-speed 11-32	Shimano HG40 8-speed 11-32	Sunrace M63 7-speed 11-34	18t Shimano cog
Chain	Shimano HG40	Shimano HG40	KMC Z50	KMC Z410
Pedals	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts
Control Center Components				
Handlebar	Alloy 80mm rise	Alloy 80mm rise	Steel 80mm rise	Haro cruiser
Stem	Alloy adjustable	Alloy adjustable	Alloy adjustable	Alloy cruiser
Grips	Dual density	Dual density	Dual density	Haro custom stitched
Deraillleur Shifter	Shimano Alivio	Shimano Revo	SRAM MRX 7-speed	N/A
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	Custom stitched Haro cruiser w/ springs
Seat Post	Alloy lo-profile suspension 40mm	Alloy lo-profile suspension 40mm	Alloy 27.2mm	Alloy 27.2mm
Seat Post Clamp	Alloy QR	Alloy QR	Alloy QR	Anodized alloy
Wheelset Components				
Hubset	Shimano Alivio 32h	Alloy 8/9 speed cassette; QR	Alloy 36h freewheel QR	Shimano singlespeed coaster rear; alloy front
Rim	Weinmann ZAC 19 double wall w/ CNC sidewalls	Weinmann 519 w/brushed sidewalls	Weinmann 519 w/brushed sidewalls	Anodized alloy 36h
Spokes	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Tires	Kenda Keen 700x45c	Kenda Keen 700x45c	Kenda Keen 700x45c	Haro Cruiser 2.125"
Brake Components				
Brakes	Shimano Alivio	Tektro direct pull w/ linear spring	Alloy direct pull w/ linear spring	Shimano coaster brake
Brake Lever	Tektro 4-finger w/ Kraton rubber insert on blade	Tektro 4-finger w/ Kraton rubber insert on blade	Tektro 4-finger w/ Kraton rubber insert on blade	N/A



Heartland 6061 T6 aluminum	Heartland 6061 T6 aluminum	Heartland 6061 T6 aluminum	Heartland 6061 T6 aluminum
N/A	N/A	N/A	N/A
SR Suntour NEX-4100; 63mm travel	SR Suntour CR-750; 50mm travel	SR Suntour CR-750; 50mm travel	SR Suntour CR-750; 50mm travel
Shimano M151 28/38/48	SR Suntour NEX-208 28/38/48	Forged alloy 3pc 24/34/42	Forged alloy 42t w/double guard
Shimano C051	Shimano C102	Shimano M190A	N/A
Shimano HG40 8-speed 11-32	Shimano HG40 8-speed 11-32	Sunrace M63 7-speed 11-34	Sunrace M63 7-speed 11-34
Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts
Alloy 80mm rise	Steel 80mm rise	Steel 80mm rise	Steel 80mm rise
Dual density	Dual density	Dual density	Dual density
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	Haro Comfort Plush w/ web spring base - Men's & Women's specific shapes
Alloy QR	Alloy QR	Alloy QR	Alloy QR
Shimano Alivio 32h	Alloy 8/9 speed cassette; QR	Alloy 36h freewheel QR	Alloy 7 speed cassette; QR
Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Shimano Alivio	Tektro direct pull w/ linear spring	Alloy direct pull w/ linear spring	Alloy direct pull w/ linear spring

6061 T6 aluminum frame	6061 T6 aluminum frame	6061 T6 aluminum frame	6061 T6 aluminum frame	6061 T6 aluminum frame
N/A	N/A	N/A	N/A	N/A
Cruiser rigid	Cruiser rigid	Cruiser rigid	Cruiser rigid	Cruiser rigid
3pc alloy w/ anodized 42t chain wheel	3pc alloy w/ steel 42t chain wheel	3pc alloy w/ steel 42t chain wheel	3pc alloy w/ anodized 42t chain wheel	3pc alloy w/ anodized 42t chain wheel
N/A	N/A	N/A	N/A	N/A
20t Shimano cog	18t Shimano cog	20t Shimano cog	18t cog	20t Shimano cog
Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts	Wellgo comfort w/ kraton rubber inserts	Wellgo platform	Wellgo platform
Haro cruiser	Haro cruiser	Haro cruiser	Haro custom Railer bar	Haro custom Railer bar
Haro custom stitched	Haro custom stitched	Haro custom stitched	Haro custom stitched	Haro custom stitched
Custom stitched Haro cruiser w/ springs	Custom stitched Haro cruiser w/ springs	Custom stitched Haro cruiser w/ springs	Custom stitched Haro Railer w/ springs	Custom stitched Haro Railer w/ springs
Anodized alloy	Alloy bolt on	Alloy bolt on	Anodized alloy	Anodized alloy
Shimano Nexus 3spd speed	Shimano single speed coaster rear;	Shimano Nexus 3spd speed	Pivot disc cassette	Shimano Nexus 3 spd rear;
Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g	Stainless steel 14g
Shimano coaster brake	Shimano coaster brake	Shimano coaster brake	Hayes MX4 mechanical disc w/160mm rotor	Shimano roller brake

Flightline Sport SG Black



Flightline 3 DX Lapis Blue



Flightline 3 Faux Pearl



Flightline 2 Harlot Red



Flightline 2 Midnight



Flightline 24 Gloss Black



Flightline 24 Bluebell



Flightline 24 Pink Pink



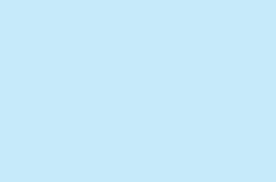
Flightline 20 Gloss Black



Flightline 20 Bluebell



Amos Snowflake



Heartland Limited Tucson Sage



Heartland Limited ST Tucson Sage



Heartland Limited ST Charmed



Heartland Sport ST Amethyst



Heartland Faux Pearl



Heartland ST Faux Pear



Heartland ST Sterling Spearmint



Express Limited ST Twilight



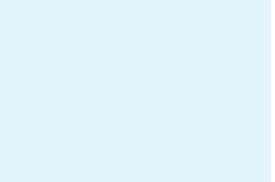
Express Sport Clean Slate



Express Sport Gloss Black



Express Sport ST Lilac



Zimzala Buster Black Cat



Tradewind Marley Top Brass



Tradewind Shae Unemployment



Tradewind Shae Bluebell



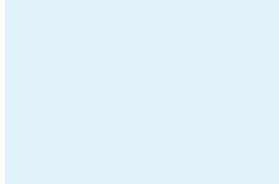
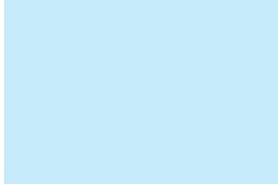
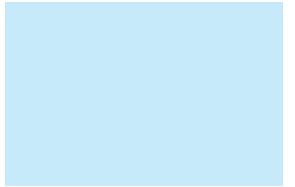
Tradewind Ollie Swampthing



Tradewind Judith Keylime Pie







Flightline Expert

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
14"	70	73	21.3	543	14	355	16.5	420	11.6	295	40.3	1025	27.6	702
16"	70	73	22.5	570	16	405	16.5	420	11.6	295	41.2	1047	28.5	725
18"	70	73	23.4	594	18	460	16.5	420	11.6	295	42.2	1071	29.8	758
20"	70	72	24.4	620	20	510	16.5	420	11.6	295	43	1092	30.8	784

Flightline One, Flightline Two, Flightline Three, Flightline Three DX, Flightline Sport, Flightline Comp

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
14" Step Thru	71	73	20.6	524	14	355	16.7	425	11.6	295	39.3	998	26.8	682
17" Step Thru	71	73	22.2	565	17	430	16.7	425	11.6	295	40.8	1037	27.1	690
14"	71	73	21.3	543	14	355	16.7	425	11.6	295	39.9	1015	27.6	702
16"	71	73	22.5	570	16	405	16.7	425	11.6	295	41	1043	28.5	725
18"	71	73	23.4	594	18	460	16.7	425	11.6	295	42	1067	29.8	758
20"	71	72	24.2	616	20	510	16.7	425	11.6	295	42.5	1079	30.8	784
22"	71	72	24.5	624	22	560	16.7	425	11.6	295	42.8	1087	31.8	809
Flightline 24	71	74	20.5	521	12	305	16.7	425	10.6	270	39.4	1000	25.2	641
Flightline 20	70	71	18.8	479	14.3	363	14.3	363	9.8	250	35	888	21.9	557

Mary SS, Mary XC

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
16"	72	73	23	585	16	405	17.6	447	12.2	310	41.7	1059	30.8	783
18"	72	73	23.6	600	18	460	17.6	447	12.2	310	42.3	1074	31.8	809
20"	72	72.5	24.6	625	20	510	17.6	447	12.2	310	43	1094	33	839

Mary geometry based on 80mm travel fork or suspension corrected fork.

Ally XC

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
16"	72	73	23	585	16	405	17.6	447	12.2	310	41.7	1059	30.8	783
18"	72	73	23.6	600	18	460	17.6	447	12.2	310	42.3	1074	31.8	809
20"	72	72.5	24.6	625	20	510	17.6	447	12.2	310	43	1094	33	839

Ally geometry based on 80mm travel fork

Beasley SS, Beasley 1x9, Beasley XC

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
14"	70	72.5	21.5	546	14	355	16.7	425	12.4	315	40.3	1024	27.5	700
16"	70	72.5	22.5	570	16	405	16.7	425	12.4	315	41.3	1048	28.5	725
18"	70	72.5	23.4	594	18	460	16.7	425	12.4	315	42.2	1072.6	29.8	755
20"	70	72.5	24.2	616	20	510	16.7	425	12.4	315	43	1095	30.8	784
22"	70	72.5	24.5	624	22	559	16.7	425	12.4	315	43.5	1103	31.8	809

Beasley geometry based on 100mm travel fork

Sonix, Sonix Comp, Sonix Expert

Size	Head Angle	Seat Angle (Effective)	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
14"	70	73	21.6	550	14	355	16.3	415	12.5	317	40.4	1027	29.1	740
16"	70.5	73	22.6	575	16	405	16.3	415	12.5	317	41.3	1048	29.1	740
18"	71	73.5	23.6	600	18	460	16.3	415	12.5	317	42.2	1073	30.9	786
20"	71.5	73.5	24.6	625	20	510	16.3	415	12.5	317	43.2	1097	31.9	812

Sonix Geometry based on 100mm travel fork. Seat angles and top tube lengths will vary based on rider seat height. Measurements noted are based on approximate tallest seat position. Seat angles will steepen and top tube lengths will decrease with lower seat heights.

Sonix 650B

Size	Head Angle	Seat Angle (Effective)	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
16"	70	73	22.6	575	16	406	17	430	12.75	324	41.7	1060	30.2	767
18"	70	73	23.6	600	18	460	17	430	12.75	324	42.7	1085	31.3	795
20"	70	73	24.6	625	20	510	17	430	12.75	324	43.5	1106	32.2	819
22"	70	73	25	635	22	559	17	430	12.75	324	44.1	1120	33	838

Sonix Geometry based on 120mm travel fork. Seat angles and top tube lengths will vary based on rider seat height. Measurements noted are based on approximate tallest seat position. Seat angles will steepen and top tube lengths will decrease with lower seat heights.

Xeon, Xeon Comp

Size	Head Angle	Seat Angle (Effective)	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
14"	69	73	22.4	570	14	355	16.7	425	13.5	345	42.3	1076	29.5	750
16"	69.5	73	23.4	595	16	405	16.7	425	13.5	345	43.1	1096	30.2	767
18"	70	73.5	24.4	620	18	460	16.7	425	13.5	345	44.1	1121	31.3	795
20"	70	73.5	25.3	645	20	510	16.7	425	13.5	345	45.1	1146	32.2	819

Xeon Geometry based on 140mm travel fork. Seat angles and top tube lengths will vary based on seat height. Measurements noted are based on approximate tallest seat position. Seat angles will steepen and top tube lengths will decrease with lower seat heights.



**Shift R1, R3, R5**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
16"	70	73	21.8	555	16	405	16.9	430	12.5	318	41.4	1053	29.8	758
18"	71	73	23	585	18	460	16.9	430	12.5	318	42.2	1074	30.8	784
20"	71	73	23.8	605	20	510	16.9	430	12.5	318	43	1094	31.5	801
21"	71	73	24.6	625	21	535	16.9	430	12.5	318	43.8	1114	32.3	821

Shift geometry based on 120 travel fork

**Steel Reserve 1.1, Steel Reserve 1.2, Steel Reserve 1.3, Steel Reserve Eight**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
Short	69.5	71.5	22.8	580	13	330	15.5	395	12.5	318	40.8	1036	29.5	749
Long	69.5	71.5	23.3	593	13	330	15.5	395	12.5	318	41.3	1049	29.5	749

Steel Reserve geometry based on 80mm travel fork or suspension corrected fork.

**Thread 1.1, Thread 1.2, Thread Eight**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
Short	69.3	70	22.8	580	13	330	15.5	395	12.5	318	40.8	1036	29.5	749
Long	69.3	70	23.3	593	13	330	15.5	395	12.5	318	41.3	1049	29.5	749

Thread geometry based on 80mm travel fork or suspension corrected fork.

**Porter**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
Short	67	73.5	22.4	570	16.4	417.4	17	431.6	13	330	43.4	1102.8	30	762
Long	67	73.5	23.3	593	16.4	417.4	17	431.6	13	330	44.5	1129.5	30	762

Porter frame geometry based on 100mm travel fork

**Amos, Roscoe, Gomez, Sanford**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
14"	70	73	21	535	14	355	17.7	450	11	280	30.8	1038	28.6	727
16"	70	73	21.2	540	16	405	17.7	450	11	280	40.9	1040	29.2	743
18"	70	73	21.8	555	18	460	17.7	450	11	280	41.6	1058	30.8	784
20"	70	73	22.6	575	20	510	17.7	450	11	280	41.7	1061	32.1	817
22"	70	73	23.4	595	22	560	17.7	450	11	280	42.4	1077	33.5	851

**Heartland, Heartland Sport, Heartland Deluxe, Heartland Limited**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
14" Step Thru	70	69	19	485	14	355	18.5	470	10.6	270	42.3	1075	23.1	589
17" Step Thru	70	69	20.1	510	17	430	18.5	470	10.6	270	42.7	1085	25.4	646
14"	70	69	18.75	476	14	355	18.5	470	10.6	270	42.3	1075	27.7	705
17"	70	69	20.1	511	17	430	18.5	470	10.6	270	42.7	1085	28.8	732
20"	70	69	21.25	540	20	510	18.5	470	10.6	270	43.3	1100	31.5	800

**Express Sport, Express Deluxe, Heartland Express Limited**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
14" Step Thru	70	70	19	485	14	355	18.5	470	10.6	270	42.2	1073	23.2	590
17" Step Thru	70	70	20.1	510	17	430	18.5	470	10.6	270	42.6	1083	23.2	590
14"	70	70	19	485	14	355	18.5	470	10.6	270	42.2	1073	28.6	727
17"	70	70	20.1	511	17	430	18.5	470	10.6	270	42.6	1083	30.5	776
20"	70	70	21.5	546	20	510	18.5	470	10.6	270	43.2	1098	32	815

**Zimzala Buster, Cooper, Molly, Maude, Tradewind Marley, Shae, Ollie, Judith**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
17	70	67	24.5	623	17	405	18.5	469	11	279	46.5	1181	31.5	800
15L	70	67	24.5	623	15	390	18.5	469	11	279	46.5	1181	26	660

**Railer SS, XS**

Size	Head Angle	Seat Angle	Top Tube (Effective)		Seat Tube (C-T)		Chainstay		BB Height		Wheel Base		Stand Over	
17	70	69	23.2	589.5	17	405	18.6	473	10.5	266.8	45.4	1153	31	787.4
15L	70	69	23.2	589.5	15	390	18.6	473	10.5	266.8	46.5	1181	27	685



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