

BREEZER

CATALOG 1998



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Bicycles are a model of mechanical efficiency. Joe Breeze has earned a reputation for distilling this efficiency into great rides. For more than 20 years—longer than any other mountain bike brand—Joe's Breezer bicycles have been delivering superior performance that makes riding more fun, more rewarding, more memorable.

There is no substitute for Joe's experience and expertise. Over the years he has ridden for fun, fitness, adventure, competition and transportation. He has devoted much of his life to improving the bicycle, squeezing out gains in efficiency and performance and continuously raising the standards.

1998 is another significant year for Breezer. The line has expanded to eight models, including two Sweet Spot dual-suspension bikes, two aluminum and two chrome-moly steel traditional mountain bikes, a road frameset, and a metro cruiser bike. Features such as Breezer D'Fusion™ tubing and Breeze-In™ dropouts are just two of many Joe Breeze creations that improve performance.



Tornado

UNLIKE dual-suspension bikes that expect you to hitch a ride to the top, the Tornado takes a stand for self-sufficiency. Its bump-leveling Sweet Spot™ rear suspension lets you ride it all, and ride it well—no roof racks or chairlifts required.

Sweet Spot™ rear suspension with Fox 5R shock; Interloc TL5 fork with Anti-Dive

Acclaimed design yields nearly five inches of plush travel

Breezer D'Fusion heat-treated aluminum/cro-moly frame

Each material is where it functions best

Breeze Bi-Conic integrated headset

Increases stance and strength of top and down tubes at the head tube

Shimano XTR rear derailleur, mucho top-end Ritchey

The best names, the best parts

Color: XTRa Gray/Rich red with cue-ball spears

Sizes: 16.5, 18.5, 20.5"

Frame: Breezer D'Fusion: Alu. front, CrMo rear

Fork: Interloc TL5 with Anti-Dive

Weight: 26.9 lbs./12.2 kg

YEAR after year the Lightning epitomizes the sterling performance of a Breezer mountain bike. It is lightweight, perfectly balanced, smooth-riding, and endowed with a premium parts collection. If you've ever wondered just how good mountain biking can be, come on over.

Breezer D'Fusion heat-treated cro-moly frame

Lightweight, strong design diffuses stress near head tube/down tube intersection

Breeze Vortex cranks

Tubular heat-treated cro-moly. More metal at periphery, where it is best

Breezer BackDraft rims

Strong 22mm-wide box-section design. Polished sidewalls, 390g

RockShox Judy XC fork, Shimano XTR rear derailleur, Avid brakes

The best names, the best parts

Color: 8-Ball Black with cue-ball spears

Sizes: 15, 17, 18.5, 19.5, 21"

Frame: Breezer D'Fusion CrMo/Heat Treated

Fork: RockShox Judy XC

Weight: 23.5 lbs./10.7 kg



Lightning



Jet Stream

THE Jet Stream has forged a reputation as a race bike that lets you put the pedal to the metal—and this year the metal is a Breezer D'Fusion mid-diameter (undersize) aluminum frame. Same precise steering, same hammer-ready responsiveness, same podium potential. Have fun.

Breezer D'Fusion butted 7005 aluminum frame

Lightweight, strong design diffuses stress near head tube/down tube intersection

Breeze-In dropouts

Stiffer, lighter, more efficient, better shifting

RockShox Judy XC fork

63mm (2.5 inches) of plush travel

Shimano XT derailleurs, Avid long-arm brakes

Superior drivetrain and braking performance

Color: Rich red with cue-ball spears

Sizes: 15, 17, 18.5, 19.5, 21"

Frame: Breezer D'Fusion butted 7005 aluminum

Fork: RockShox Judy XC

Weight: 24.9 lbs./11.3 kg

BACKED by the same frame as the Tornado, the Twister is a favorite of riders who venture off the yellow brick road and deep into the woods. Uphill, downhill, and everywhere else, the Twister puts a spring in your ride and a smile on your face.

Sweet Spot™ rear suspension with Fastrax coil shock; RockShox Indy XC Long Travel fork
Plush, generous travel front and rear

Breezer D'Fusion heat-treated aluminum/cro-moly frame
Each material is where it functions best

Breeze Bi-Conic integrated headset
Increases stance and strength of top and down tubes at the head tube

Shimano XT rear derailleur
Longer wear, better shifting

Color: 8-ball black/Rich red with cue-ball spears

Sizes: 16.5, 18.5, 20.5"

Frame: Breezer D'Fusion: Alu. front, CrMo rear

Fork: RockShox Indy XC, Long Travel

Weight: 28.5 lbs./12.9 kg



Twister



Thunder

START with the same aluminum frame as the Jet Stream, with the touring-friendly addition of rear rack eyelets. Add a savvy mix of seasoned components. The Thunder is ready to cook, right out of the box. Ride until satisfied. Repeat often for best results.

Breezer D'Fusion butted 7005 aluminum frame

Lightweight, strong design diffuses stress near head tube/down tube intersection

Breeze-In dropouts

Stiffer, lighter, more efficient, better-shifting

RockShox Indy XC fork

63mm (2.5 inches) of plush travel

Shimano XT rear derailleur

Longer wear, better shifting

Color: Cobalt blue with cue-ball spears

Sizes: 15, 17, 18.5, 19.5, 21"

Frame: Breezer D'Fusion butted 7005 aluminum

Fork: RockShox Indy XC

Weight: 25.9 lbs./11.8 kg

THE Storm packs the same punch as the high-end Lightning by using the identical elite chrome-moly frame (with the addition of rack eyelets—how convenient). The Breezer Taper fork furnishes a supple ride you might not expect from a rigid fork. The Storm offers the undiluted high performance you expect from a Breezer.

Breezer D'Fusion heat-treated cro-moly frame

Lightweight, strong design diffuses stress near head tube/down tube intersection

Breeze-In dropouts

Stiffer, lighter, more efficient, better-shifting

Shimano XT rear derailleur

Longer wear, better shifting

Color: Sky blue with cue-ball spears

Sizes: 15, 17, 18.5, 19.5, 21"

Frame: Breezer D'Fusion CrMo/Heat Treated

Fork: Breezer Taper CrMo, $\varnothing 28.6 \times \varnothing 27\text{mm}$ steerer

Weight: 24.9 lbs./11.3 kg



Storm

Ignaz X



WHETHER your destination is a waterfall in the woods or a store downtown, the Ignaz X gets you there and back in style. The Cadillac of cruisers relies on Shimano's Nexus internally geared rear hub for ultra-smooth shifting and reliable braking.

Styled after the Schwinn Excelsior X
The Excelsior X gave us the foundation for the modern mountain bike
Double-top-tube design, two-tone paint with spears

The style of Joe's beloved 1937 Excelsior X and other old bikes raced on Repack 20+ years ago

Shimano Nexus seven-speed internally geared hub

Brilliantly simple shifting and an easy hand-operated roller brake

Texas Longhorn handlebar, dual-coil-spring saddle, 2.125" tires
Comfortable ride, good looks

Color: Rich red with cue-ball spears

Sizes: 18.5"

Frame: Double-butted CrMo

Fork: CrMo, Ø25.4mm (1") threaded steerer

Weight: 32.9 lbs./14.9 kg

THE Venturi's original road frame design surpasses the challenges of long climbs, sudden sprints, hours in the saddle, and everything else that satisfies the soul of competitive and recreational road riders. More than an equipment upgrade, the Venturi elevates your pursuit of happiness on the pavement.

"Downsized" frame with longer top tube, shorter seat tube

More lateral rigidity, more vertical compliance, less weight

Breeze heat-treated short-butted cro-moly tubing

Custom-drawn to Joe Breeze's specifications for the best ride and low (sub-4-pound) weight

Available as frameset only (with Advanced carbon fiber fork)

Build it the way you like it

Color: Sky blue with moonglow pearl

Sizes: 48, 51, 54, 57cm

Frame: Breezer short-butted CrMo/Heat Treated

Fork: Advanced carbon, Ø25.4mm (1") threaded steerer

Weight: 3.5 lbs./1.6 kg (frame only)



Venturi

Tornado

Lightning

Jet Stream

Twister

Thunder

Storm

	Tornado	Lightning	Jet Stream	Twister	Thunder	Storm
Frame	Sweet Spot, Breezer D'Fusion Alu./Cr-Mo; Fox Alps 5R shock	Breezer D'Fusion Cr-Mo Heat-Treated	Breezer D'Fusion Aluminum	Sweet Spot, Breezer D'Fusion Alu./Cr-Mo; Fastrax HX shock	Breezer D'Fusion Aluminum	Breezer D'Fusion Cr-Mo Heat-Treated
Fork	IRD TL5 w/ Anti-Dive	RockShox Judy XC	RockShox Judy XC	RockShox Indy XC, Long Travel	RockShox Indy XC	Breezer Taper Cr-Mo
Headset	AheadSet DLC	AheadSet DX2	AheadSet STE	AheadSet DLC	AheadSet STE	AheadSet STE
Handlebar Stem	Ritchey Complite	Ritchey Complite	Ritchey Complite	Ritchey Complite	Ritchey Complite	Sonne 4
Handlebars	Ritchey ProLite	Ritchey ProLite	Ritchey Forcelite	HL MTB-110P	HL MTB-110P	HL MTB-110P
Bar Ends	Onza Raw 110	Onza Raw 110	HL MT-52A	HL MT-52A	HL MT-52A	HL MT-52A
Grips	Ritchey True Grip Lite	Ritchey True Grip Lite	Ritchey True Grip Lite	Ritchey True Grip Lite	Ritchey True Grip Lite	Ritchey True Grip Lite
Brakes/Levers	Avid 1D-20/Avid SD-2.0L	Avid 1D-20/Avid SD-2.0L	Avid 1D-10/Avid S	Lee Chi ProMax	Lee Chi ProMax	Lee Chi ProMax
Shifters	Shimano XT	Shimano XT	Shimano STX-RC	Shimano STX-RC	Shimano STX-RC	Shimano STX-RC
Derailleurs	Shimano XTR (r), XT (f)	Shimano XTR (r), XT (f)	Shimano XT (r + f)	Shimano XT (r), STX(f)	Shimano XT (r), STX(f)	Shimano XT (r), STX(f)
Bottom Bracket	Ritchey SuperLogic Comp	Ritchey SuperLogic Comp	Tange-Seiki LN-75	Shimano BB-LP26	Shimano BB-LP26	Shimano BB-LP26
Cranks	Sugino Mighty 700X, w/ Sugino CXP 42/32/22T rings	Breeze Vortex, w/ Sugino SS-III 42/32/22T rings	Sugino Impel 600, w/ SS-III 42/32/22T rings	Sugino Impel 500, w/ SS-III 42/32/22T rings	Sugino Impel 500, w/ SS-III 42/32/22T rings	Sugino Impel 350 w/ SS-III 42/32/22T rings
Pedals	Ritchey Logic Pro, clipless	Ritchey Logic Pro, clipless	Ritchey Logic Comp, clipless	Fasten FPD-C12, clipless	Victor VP-180 Dirt, w/ clips	Victor VP-180 Dirt, w/ clips
Cassette	Shimano XT; 11-28, 8-spd	Shimano XT; 11-28, 8-spd	Shimano CS-HG60-1, 11-28/8	Shimano CS-HG60-1, 11-28/8	Shimano CS-HG60-1, 11-28/8	Shimano CS-HG60-1, 11-28/8
Hubs	Ritchey TR-1 (r); TR-3 (f)	Ritchey TR-1 (r); TR-3 (f)	Ritchey TR-3	Ritchey TR-3	Formula CO32	Formula CO32
Spokes	Wheelsmith 14/15G; al. nipples	Wheelsmith XL-15; al. nipples	Asahi stainless, 14/15G	Asahi SS, 14/15G	Asahi SS, 14/15G	Asahi SS, 14/15G
Rims	Ritchey SCX+OCR	Breezer Backdraft 390	Ritchey SCX+OCR	Formula CO32	Ritchey SCX+OCR	Ritchey SCX+OCR
Tires	Ritchey SC/Z-Max; Kevlar® bead, 120 TPI	Panaracer Mach SS/SK; Kevlar® bead, 125 TPI	Ritchey SpeedMax A/O; Kevlar® bead, 60 TPI	Ritchey SC/Z-Max; 60 TPI	Ritchey SC/Z-Max; 60 TPI	Ritchey SC/Z-Max; 60 TPI
Saddle	Ritchey Vector ProLite	Ritchey Vector ProLite	Ritchey Vector Sport	Ritchey Vector Sport	Ritchey Vector Sport	Ritchey Vector Sport
Seatpost	Ritchey Expert; Ø27.2, 330mm	IRD; Ø27.2, 350mm	Ritchey FD, Ø27.2, 330mm	Kalloy SP-263, Ø27.2, 350mm	Kalloy SP-263, Ø27.2, 350mm	Kalloy SP-263, Ø27.2, 350mm

TEAM BREEZER

Nexus/Breezer Pro Racing Team

Team Breezer's goal is to promote bicycles as an alternative to cars. The team is sponsored by companies that believe in bikes for transportation. Title sponsor Nexus is Shimano's new line of utility bike components. Other sponsors include Ritchey, RockShox, Clif Bar, and Kryptonite.

Photo, from left: Jeff Hall, Niki Pippin, Christine Vardaros, Kristi Hill, Gina Hall, and Joe Breeze. Not shown: Jamie Futtu, Curtis Eastin (manager).



BREEZER DETAILS



It's one of cycling's inescapable truths: The frame is the soul of the bike. The sum of tubing gauges and sizes and their geometry makes all the difference in a bike's balance, control and comfort. As an experienced framebuilder and designer, Joe Breeze endows each Breezer with a finely balanced combination of subtle, important details.

Oversize bi-conical seat stays fight brake-induced flex, even with powerful brakes.

3D shape of Breeze-In™ dropouts makes them twice as stiff and light as standard dropouts.

D-shape chainstays are stiffer and more efficient. They also reduce chain suck.

Seat tube top is square to eliminate stress riser at seat tube/binder centerline. Binder mounts in front and is scalloped to save weight.

Breeze-On™ universal cable housing stop/guides fit all set-ups: Split, full-length, and hydraulic.

Breezer Vortex cranks: Welded tubular cro-moly; 425g. Stock on Lightning; aftermarket upgrade.

Breezer D'Fusion™ top and down tubes have D-shape cross-section to diffuse stress at head tube and deliver a compliant, torsionally rigid ride.

Head tube is stoutly reinforced at upper and lower ends.

Breezer mountain bikes are designed around suspension forks. The Breezer Taper cro-moly fork is available as an option.

Breezer BackDraft 390 rims: Strong and light, 22mm-wide, 390 gram rim with a full box joint and inner web lightening holes; aftermarket upgrade.



BREEZER HIGHLIGHTS



The D'Fusion tubing's profile transitions to a D-shape cross-section to diffuse stress near the head tube.



D'Fusion™ Tubing

Breezer D'Fusion™ tubing strengthens Breezer mountain bikes with a unique D-shape profile on the top and down tubes near the head-tube intersection. Standard round tubes are vulnerable in this area, as significant stress travels through the head-tube joint. D'Fusion tubing's broader cross-section (on the bottom of the down tube and top of the top tube) diffuses that load over a wider area, reducing the risk of fatigue. In the rear triangle, D'Fusion adds rigidity to the chainstays through a wider cross-section.

All Breezer mountain bikes, steel and aluminum, rigid and full-suspension, feature D'Fusion tubing.



Breezer Taper Fork

The Breezer rigid fork features Joe Breeze's special steerer tube. It has an outer diameter of 28.6mm (1 1/8") at the upper bearing fit and a transition to 27mm below. This vertically compliant slimmer diameter gives a more comfortable ride, yet still fits a 1 1/8" headset.

Breeze-In™ Dropouts

Joe Breeze's original design offers twice the rigidity and half the weight of standard dropouts. Breeze-Ins enable the stays to extend nearer the rear axle and improve everything from the ride to shifting to wheel changes.



SWEET SPOT™ SUSPENSION

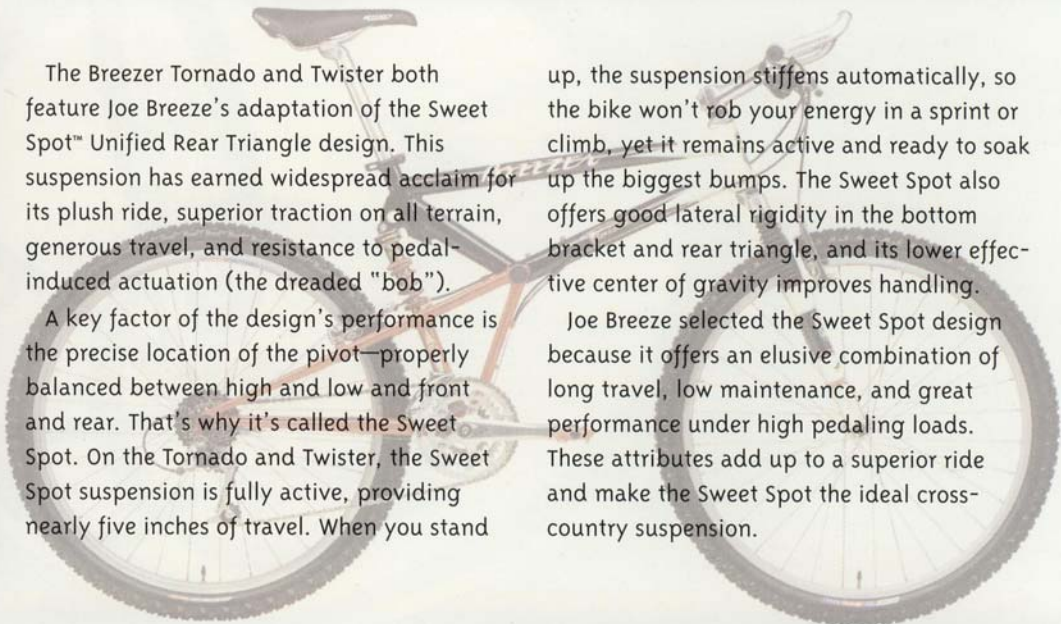


The Breezer Tornado and Twister both feature Joe Breeze's adaptation of the Sweet Spot™ Unified Rear Triangle design. This suspension has earned widespread acclaim for its plush ride, superior traction on all terrain, generous travel, and resistance to pedal-induced actuation (the dreaded "bob").

A key factor of the design's performance is the precise location of the pivot—properly balanced between high and low and front and rear. That's why it's called the Sweet Spot. On the Tornado and Twister, the Sweet Spot suspension is fully active, providing nearly five inches of travel. When you stand

up, the suspension stiffens automatically, so the bike won't rob your energy in a sprint or climb, yet it remains active and ready to soak up the biggest bumps. The Sweet Spot also offers good lateral rigidity in the bottom bracket and rear triangle, and its lower effective center of gravity improves handling.

Joe Breeze selected the Sweet Spot design because it offers an elusive combination of long travel, low maintenance, and great performance under high pedaling loads. These attributes add up to a superior ride and make the Sweet Spot the ideal cross-country suspension.





Lightning, Jet Stream, Thunder and Storm

	15-inch	17-inch	18.5-inch	19.5-inch	21-inch
A Seat tube, c-t	380 mm	430 mm	470 mm	495 mm	535 mm
B Seat tube, c-c	330 mm	380 mm	420 mm	445 mm	485 mm
C Top tube, c-c	517@20°	537@14°	561@10°	576@7°	591@5°
D Top tube, level	545 mm	565 mm	585 mm	595 mm	605 mm
E Stem	105 mm	120 mm	120 mm	135 mm	135 mm
F Top to ground	705 mm	738 mm	757 mm	768 mm	796 mm
G Head angle	71.5°	71.5°	71.5°	71.5°	71.5°



Tornado, Twister

	17-inch	18.5-inch	20-inch
A Seat tube, center-top	430 mm	470 mm	495 mm
B Seat tube, center-center	380 mm	420 mm	445 mm
C Top tube, center-center	529@128	548@88	578@48
D Top tube, level	570 mm	590 mm	605 mm
E Stem	120 mm	120 mm	135 mm
F Top to ground	670 mm	764 mm	786 mm
G Head angle	71°	71°	71°



Venturi

	48 cm	51 cm	54 cm	57 cm
A Seat tube, center-top	480 mm	510 mm	540 mm	570 mm
B Seat tube, center-center	450 mm	480 mm	510 mm	540 mm
C Top tube, center-center	524@5°	549@2.5°	569@0°	585@0°
D Top tube, level	535 mm	555 mm	570 mm	585 mm
E Stem	n.a.	n.a.	n.a.	n.a.
F Top to ground	732 mm	751 mm	769 mm	798 mm
G Head angle	73.5°	74°	74°	74.5°

	15-inch	17-inch	18.5-inch	19.5-inch	21-inch
H Fork offset	40 mm	40 mm	40 mm	40 mm	40 mm
I Seat angle	73°	73°	73°	73°	73°
J Chainstay	422 mm	422 mm	422 mm	422 mm	422 mm
K BB height	290 mm	295 mm	295 mm	295 mm	295 mm
L Wheelbase	1003 mm	1027 mm	1048 mm	1058 mm	1069 mm
M Front center	584 mm	607 mm	628 mm	639 mm	650 mm
Head tube	100 mm	110 mm	110 mm	110 mm	130 mm

With Judy and Indy forks (426 mm long, 63 mm travel), head angle varies from 71° (sagged 10 mm) to 73.5° (fully compressed). Bottom bracket height varies from 301 mm (static) to 281 mm (fully compressed).

	17-inch	18.5-inch	20-inch
H Fork offset	40 mm	40 mm	40 mm
I Seat angle	72.5°	72.5°	72.5°
J Chainstay	422 mm	422 mm	422 mm
K BB height	301 mm	301 mm	301 mm
L Wheelbase	1041 mm	1057 mm	1078 mm
M Front center	598 mm	637 mm	659 mm

Geometry shown is measured with rear sagged 7 mm, and front sagged 10 mm. These measurements apply to forks 426 mm long and with 63 mm travel (standard Judy and Indy forks).

	48 cm	51 cm	54 cm	57 cm
H Fork offset	43 mm	40 mm	40 mm	37 mm
I Seat angle	74.5°	74°	73.5°	73°
J Chainstay	405 mm	405 mm	405 mm	405 mm
K BB height	262 mm	264 mm	264 mm	267 mm
L Wheelbase	965 mm	975 mm	985 mm	989 mm
Front center	571 mm	581 mm	591 mm	594 mm
Head tube	80 mm	88 mm	96 mm	122 mm

BICYCLES AS TRANSPORTATION (WHAT A CONCEPT)



Bicycling is different from most other sports because its basic element, the bicycle, is also very useful in day-to-day life. Bicycle riding is the most efficient form of individual transport. Ridden in a responsible way, a bicycle and its rider can do great things. In many instances a bicycle can be faster than a car, especially when factoring in fitness gained and expenses saved. Spend less time in the office or health club and more time on your bike! And each time you use a bike instead of a car, feel good about your contribution to the planet's health too. Hey!

FUTURE THOUGHT: SOMETHING TO CHEW ON

If calories were expressed as gasoline, a bicycle would get 3000 miles a gallon. And people food is a renewable resource.

DISTRIBUTORS

For more information on Breezer bicycles and frames:

United States (West)

The Merry Sales Co.
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BREEZER

On cover: Breezer team racer Kristi Hill. (Photo by Mark Dawson.)

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