**This catalogue** is printed on recycled paper. This paper can be recycled and used again when you and your friends are done with it. By using recycled paper, we've saved trees, water and electricity as well as reducing air pollution and easing the pressure on land fills. At Syncros we use minimal packaging for our products because we figure you're more interested in the components than packaging hype.

We hope that you too will tread a little lighter on Planet Earth. After all, it's the only one we've got. Reduce, reuse and recycle as much as you can. Ride easy on the trails and be aware of your impact so they'll be around for others to use. Share them with equestrians and pedestrians too. And spread the word about going easy on the planet, we're all in this together.



# syncros

APPLIED TECHNOLOGY INC.

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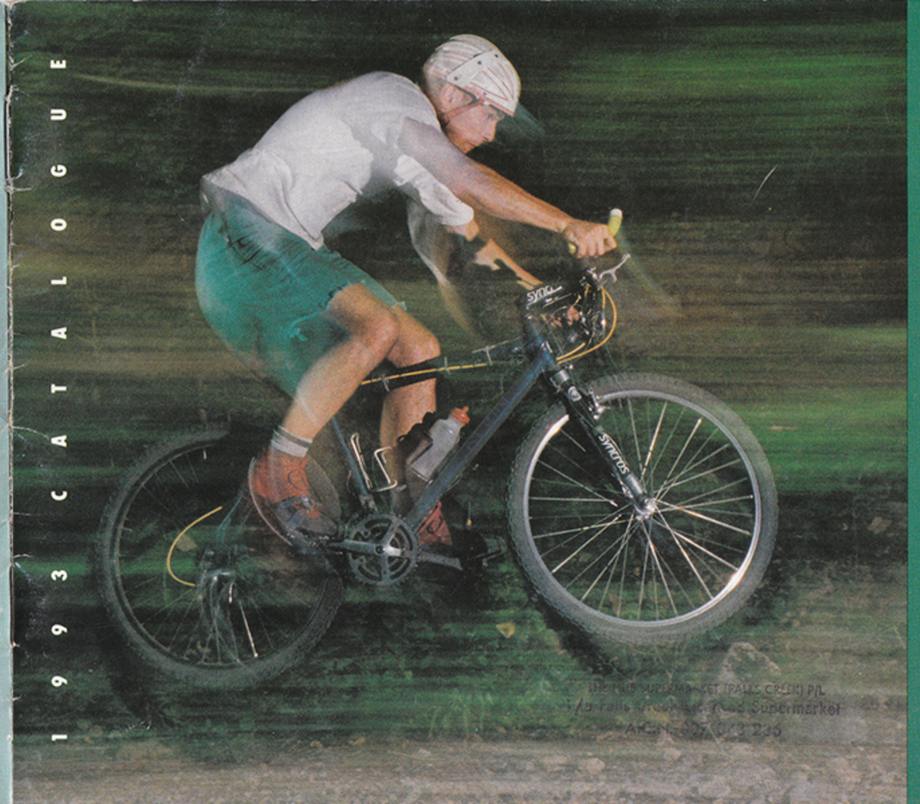
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- **Design and production:** Sheldan Studios Ltd.

**• Our guarantee: We guarantee our components, when used reasonably, to be free of defects in materials and workmanship during the normal life of the part.**

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1993 CATALOGUE




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syncros

APPLIED TECHNOLOGY

**Syncros** is a team of highly skilled and motivated craftspeople who have been building high performance bicycle parts since 1986. We come from diverse athletic backgrounds like windsurfing, skateboarding, skiing, rock climbing and snow boarding with extreme mountain biking as a common obsession. As athletes, we've ridden on (and sometimes over!) the edge and refuse to accept mechanical limitations.

Our designs are innovative and thoroughly researched. All prototypes must pass an extensive battery of tests in the laboratory and on the race course before they are committed to production. We select raw materials from the most expensive aerospace alloys that are custom made to our exacting specifications in aircraft-certified mills throughout North America. Our machinists, as riders, understand the kind of punishment every part must withstand; something you can't teach a robot. In fact, we build thousands of parts to tolerances as close as 0.003mm (0.0001in). Try that one on Taiwan! Building by hand with individual inspection takes longer but it's your assurance of quality, precision and performance.

Twenty minutes from the West Coast's most awesome trails, our Vancouver factory has grown to supply hard-core riders in 19 countries. Our unique combination of aerospace materials, old-world craftsmanship and experience based design has given Syncros components a world-wide reputation for lightness, strength and durability.

**As Syncros, we recognize the demands of extreme mountain biking and build every component to take you to your limits and beyond.**











**In 1986**, after years in the bike shops as Canadian mountain bike pioneers, we recognized the need for specialized componentry designed specifically to withstand serious off road pounding. To us, early mountain bike parts were just modified road gear, and the parts we hadn't busted ourselves, our customers had. So, after years of turning our bike parts into scrap metal, we decided to get to work on something better.

Syncros had its humble beginnings in a backyard garage, where for 2 years, we honed our skills, turning aerospace surplus into high tech prototype hardware for ourselves and the local "bros". Our commitment was and still is to build the lightest and most durable components possible to synchronize man and machine.

Syncros is not interested in fads. We dedicate our resources to the development of functional products for racing and hard-core off-road use. For the coming season, we offer Pro and Gorilla Series mountain bike components as well as our Altura road racing parts that are capable of standing alone as the finest parts of their kind. Put them together as a groupo and they're unbeatable.

Pete Hamilton

**Syncros Pro Series** components reduce weight and dramatically improve the handling and acceleration efficiency of any bike for race winning performance. And for you hefty industrial grade riders out there, we introduce our new Gorilla Series components to give you the confidence to go to extremes. Our Gorilla Series components feature the same Syncros designs beefed up to take the kind of abuse only heavy weights can dish out.

Off-road racers, from local amateurs to World Cup Professionals, demand Pro Series components for the competitive edge. Extreme riders worldwide rely on our Gorilla parts to take the pounding, even in the most radical terrain. So if you're the kind of rider who refuses to accept limitations, go for it with Syncros, and experience unlimited performance.










**Design**, materials and attention to detail is what has given our components a reputation of reliability. They'll take all the punishment you can dish out because at Syncros we believe that for decency's sake, the hardware should long outlast the flesh. Our two classes of off-road components allow you to select parts that will fine tune your bike to your personal riding style.

Experience it yourself. With the Syncros Pro Series and Gorilla Series components, you'll get lightweight race-proven performance and bomb proof durability ride after ride.

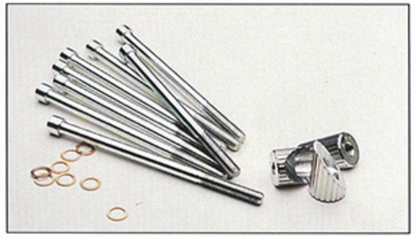


If you demand no bull steering, then you've got to have a Syncros Cattleprod™ stem. With over 35,000 Cattleprods in service worldwide, our state-of-the-art design and technology is putting all other steel, aluminum and even titanium stems out to pasture. From the Grundig circuit, and the Supercup Downhill to local races everywhere, winning racers choose the Cattleprod stem for its excellent shock absorption, positive control and high reliability.

All Syncros stems are built with vibration damping, low modulus 6061T6 aluminum that's solution heat treated and artificially aged after welding for maximum strength and fatigue resistance. The massive, differentially tapered extension tube and the new monocoque, twin bolt handlebar clamp give unparalleled, solid ground feel and precise, accurate, finger tip steering response so you can dance your way around obstacles and stay in your line.





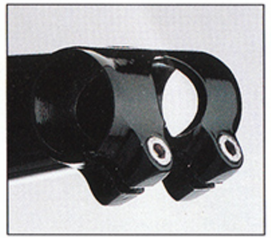


Z-bolts, only 18g, the lightest in the world!

Aerospace Zicral alloy, strength to weight twice titanium and 3 times Cromoly steel.

Standard equipment on all Cattleprod and Altura™ stems, also available seperately.



New monoque handlebar clamp generates high clamping pressure for maximum bar retention.

ALTURA

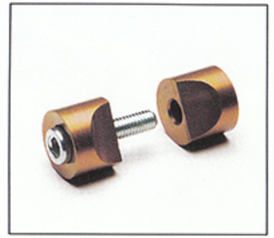
The new Altura™ road stem is the lightest aluminum road racing stem in the world, 200g, 110mm!

Oversized bi-oval extension tube provides unsurpassed stiffness and strength for all out power and control.



15g. cable hanger retrofits to quill for use with rigid forks. Standard equipment on Syncros mountain stems, also available separately.

Pro Series



Split cotter clamp mechanism secures the new Aheadset™ compatible Cattlehead™ stem cleanly and positively.




The twin bolt clamp mechanism reins bars in tight!

Ultra-lightweight 6061T6 heat treated alloy 220g, 140mm.

Oversize, differentially tapered extension tube provides incredible stiffness and strength.




This season, the weight of the Cattleprod™ has been honed to an astonishing 220g. (140mm x 1") without sacrificing any strength. The cable hanger retrofits to the quill for use with rigid forks.

New this season is the Cattlehead™ stem, designed specifically for use with Aheadset™ style head sets. The Cattlehead features the same race proven, bomb proof design as our Cattleprod stems. The unique split cotter clamp holds the forks with authority and there's no protruding clamp bolts to smash your knees on.

The Altura™ road racing stem is more than 100 grams lighter than conventional forged alloy stems but that's not the only reason the Altura was exclusively selected for use by the Coors Light Racing Team. The Altura's bioval extension tube provides unmatched strength and rigidity for accurate steering and efficient climbing and sprinting. The new ultra clean monocoque handlebar clamp secures your handlebar with authority so you can concentrate on more important things... like winning. Like our mountain stems, the Altura is hand welded then heat treated for maximum strength and fatigue resistance.

**Syncros Horns™** represent the most significant development in off road ergonomics since the bull moose handlebar. Developed in 1986 to cure a tendonitis problem, Steerhorns™ have since become an integral steering component to thousands of pro and amateur racers. By laterally rotating the wrists, Steerhorns increase power available for climbing and sprints and reduce stresses on the hands and wrists when you're flying through the rough stuff.

Horns are now available in two configurations so you can choose the model best suited to your personal style. Developed in conjunction with our factory racers, our new Bighorn™ model uses the same patented design as our original Steerhorn with a low profile cant angle for a flatter, more aggressive riding position.

Both Horn styles deliver unparalleled ground feel and finger tip steering response in all terrain. Our custom-made Horn Grips fit perfectly over your Horns for a positive, shock absorbing grip. So grab a set of Horns and Get Agro!







The original and only true ergonomic design.

Lightweight 6061T6 aluminum, 150g.

Five different hand positions for increased comfort.

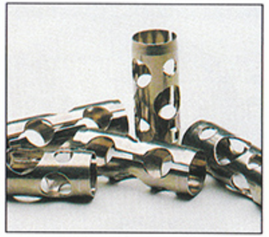
Increases power for climbing and sprints.



Available in 7075T78 alloy,

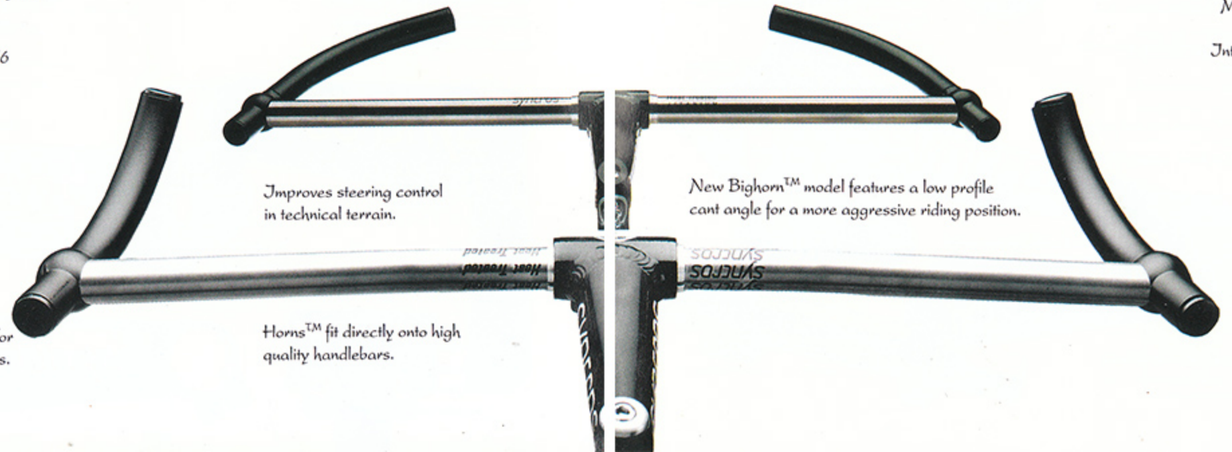
- Pro Series 120g
- Gorilla Series 165g
- Titanium Ti3AL2.5V, 155g.

Flatbar 5° bend, Shotgun 0°



One piece Swiss Style shim, Magnesium, only 7g.

Integral with Syncros handlebars.



Improves steering control in technical terrain.

Horns™ fit directly onto high quality handlebars.

New Bighorn™ model features a low profile cant angle for a more aggressive riding position.

While some manufacturers are making a lot of claims, Syncros delivers with the best selection of high performance handlebars on the market. Whether you choose our ever popular Titanium, beefy Gorilla Series or our new Ultralite Pro Series bars, you can count on Syncros for the ultimate in guidance system components.

Our new state-of-the-art Pro Series handlebars are hard drawn, then backward extruded for maximum strength, yet tip the scales at a mere 120g., including our new integral Magnesium Swiss Style shim. The taper wall design combined with our high strength, low modulus 7075 aircraft tubing generates superb shock and impact damping characteristics for a sweet ride through the rough stuff.

So whether you're charging for a World Cup win or catching big air off your favourite launch pad, you can depend on Syncros for the right bar to steer you straight.



**Winning racers** everywhere are forever chasing the elusive secrets of speed. Many top pros have discovered that reducing mass and friction greatly improves handling and acceleration for this race winning speed. At Syncros, we've taken speed to heart as evident in our Pro and Gorilla Series bottom brackets.

Precision ground sealed cassette bearings provide virtually frictionless pedaling and are protected by eight independent rubber seals that completely isolate the rolling mechanism from environmental contamination for long lasting performance. Our ultralight computer machined, heat treated Ti 6-2-4-6 Titanium spindles reduce bottom bracket mass by over 50% and our new ultra stiff Gorilla model has dual drive side bearings that virtually eliminate overload.

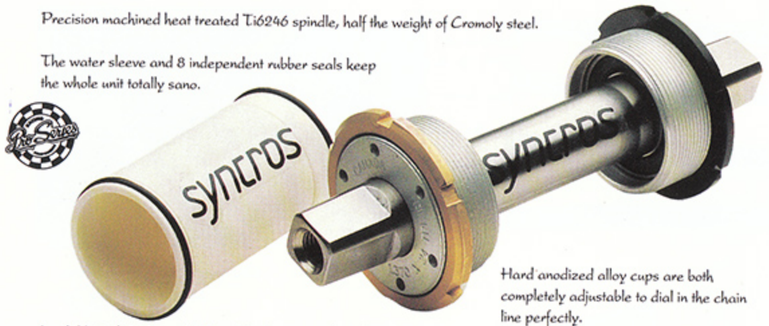
So if you have a passion for speed, dial in a Syncros bottom bracket. The overall effect is performance without equal.

Crank service is a snap with our Titanium Crank-O-Matic™ crank bolts. Crank tools become redundant with Crank-O-Matics, a long arm 6mm Allen key is all that's required for crank installation or removal. Crank-O-Matics are permanently Tiodized™ and Tiolubed™ to eliminate seizing problems associated with other Titanium bolts.



Precision machined heat treated Ti6246 spindle, half the weight of Cromoly steel.

The water sleeve and 8 independent rubber seals keep the whole unit totally sano.




Available to fit both road (160g including watersleeve) and mountain (165g) cranks.

Hard anodized alloy cups are both completely adjustable to dial in the chain line perfectly.

Precision ground SKF sealed, cassette bearings provide thousands of miles of low friction, trouble free performance.

Outboard bearing placement minimizes spindle flex.

Titanium Crank-O-Matic™, crank bolt and puller in one.

Precision machined from Ti6Al4V, Crank-O-Matics weigh a mere 18g.



New Gorilla Series model has dual drive side bearings to handle industrial grade loads.

GORILLA

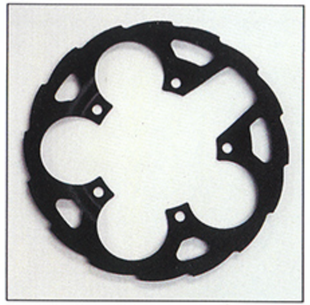



Custom drawn Columbus Nivacrom crank arms significantly reduce flex and fatigue.

Ergonomic design maximizes power transmission, optimizes ankle clearance.

The 410g Revolution crankset delivers more bomb proof performance per gram than any crank in the world.

Available in both mountain and road configurations.



Log Cog protects chainrings from rocks, logs and other nasty obstacles.

Unidirectional tooth pattern provides excellent bite in technical riding situations.

Super beefy and light, computer designed 6061T6 alloy Log Cog weighs only 107g.




Powderdisc™ spider reduces chainring deflection and accepts regular chainrings.

Cold forged spindle taper provides lifetime fit on conventional bottom bracket spindles.

**If you** demand as much from your components as you do from yourself, count on the ultralight Revolution crankset to give you unequaled power transmission for uncompromising performance. Our lightweight tubular Columbus Nivacrom crank arms are designed specifically to overcome power robbing flex and fatigue associated with conventional heavy aluminum cranks. The ultra stiff elliptical Revolution crank arm maximizes power transmission, while the hightech ergonomic design optimizes ankle clearance and has one of the lowest Q factors in the business. Our spindle taper is cold forged, not machined, for a lifetime fit on both Syncros and conventional bottom brackets. The Powerdisc™ spider reduces chainring deflection and is compatible with all standard 74-110 chainrings.



Bolt on a set of Syncros cranks and join the Revolution!

**At Syncros,** we've redefined the high performance seat post with our new ultralight Pro Series Titanium Propost™. Built with custom drawn heat treated Ti 3Al 2.5V Titanium, the Propost is a race light 180g., the lightest Titanium post on the market. The unique vibration damping characteristic of the pillar provides the plushest of rides to smooth out even the roughest of cross country race courses. Our Gorilla Series Propost, built from hard drawn 7075T78 tubing utilizes the same patented design as our Pro Series and sets on the industry standard for weight and durability. Each Propost is precision turned to the kind of exacting tolerances seen only on hand made components for a perfect fit every time. Our unique medium layback design is engineered specifically for modern bike geometry and riding techniques. The plated, heat treated, Cromoly bolts grab the saddle rails with authority and the sinterized bronze rotators allow infinite micro-adjustment of riding position. Available in all standard and non-standard sizes, there's a Propost to keep you riding high in the saddle!





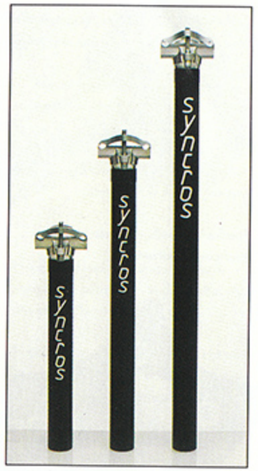
Sinterized bronze rotators and heat treated bolts for precise micro adjustment.

GORILLA

Medium lay back design is ideal for modern bike geometry and riding techniques.



Precision machined heat treated alloy pillar is ultra strong and still the lightest.




Proposts are available in 3 lengths and all standard and non standard sizes.

- Pro Series
  Ti 3 AL 2.5 V, 180g., 27.2 x 330
- Gorilla Series
  7075T78, 220g., 27.2 x 330




**Mountain biking** is the kind of sport where you're always scouting out new and varied terrain to test your limits. That's why you need Syncros System 3™. System 3 is a three part lubricant with different viscosities and holding powers to allow you to select the oil best suited to terrain and riding conditions.

Formulated to flow between the chain's pin and roller and stay there, System 3 sheds water, prevents rust and eliminates friction for clean, quiet riding and extended powertrain life.

Recent breakthroughs in petroleum distillate technology have allowed us to formulate a bicycle grease that has four times the pressure rating of the most expensive grease now on the market, which means the grease stays on the bearings and won't spin off.

Remarkably waterproof, this low friction grease extends bearing life and will not age harden even after long periods of use.

FALLS CREEK P/L
c/o Falls Creek Liverpool Supermarket
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**If bombproof** components aren't enough, check out the Syncros accessories to keep you looking and staying cool.

There's regular and 1/3 more water bottles you can top up with your favorite thirst quencher for chillin' on the trails and Syncros 100% cotton caps will help you keep a cool head. Our caps are so popular, we couldn't get our hands on one for a photograph!

With a Syncros 100% cotton T-shirt, you'll be looking stylish while you kick back and tell the gang about your latest brush with danger.

You can jazz up your jackets and jerseys with Syncros crests and our sticker kits are perfect for your frame and helmet too.

























**Only** twenty minutes from our Vancouver factory, in the lush coastal mountains, there's unlimited year-round riding on hundreds of kilometres of the most awesome trails on the West Coast.

From lung-searing climbs and wide open, high speed descents to insanely technical single track, there's plenty of terrain to test every rider's limits. It's world class riding no doubt. And it's a great place to test world class components too. There's no shortage of slippery roots and rocks, twists, turns and dropoffs for our hard-core test pilots to hammer over and push Syncros components to the limit. Feedback from our test riders and local "bros" is critical to the refinement and continuous improvement of state-of-the-art Syncros componentry.

We figure if our components make the grade in our own back yard, they'll handle the demands of extreme mountain biking the world over.