



[SYNEROS™]

evidence • [ninety six]

"TALKING ABOUT MOUNTAIN BIKING IS LIKE DANCING ABOUT SEX."

You ride to feel. Your heart busting out of your throat. Sinew burning. Quaking. With fear. You ride to live. Careening recklessly towards the edge. Only to escape. To peer into the abyss. All in a blur. To elude disaster. Narrowly. But intact. And more alive than ever.

We know. We ride. And the components in this catalogue are the ones we build for ourselves. To propel us along our quest.

It's a journey that began in a cluttered garage nearly a decade ago. It may as well have been the prehistoric age. Gary, Tom and Joe had just discovered the first mountain bike. It had the geometry of a dinosaur. And titanium was something you found on the landing gear of an F-16. But despite the years, and the many astounding advances, the quest remains the same. To build bombproof, featherweight components light enough to allow us to reach new heights of experience, and strong enough to withstand the hair-raising plunge into the realm of the senses.

Along the way, our small and enduring circle of die-hard friends who first took to the dirt has grown to legions, all in search of that miraculous sensation that only adrenaline can provide. Today, Syncros components propel elite racers across finish lines around the world, among them current Women's World Downhill Champ Missy Giove, '95 Pan Am Games Gold Medalist

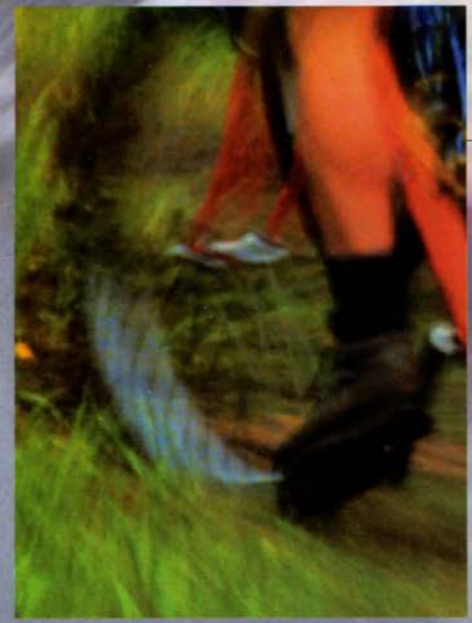


Tinker Juarez and current World Cross-Country Champs Henrik Djernis and Alison Sydor. All driven by the same insatiable and incomprehensible need that sends you screaming for the hills.

So, by necessity, the trail has widened to allow for these many new and diverging spirits. So has the family of Syncros components. This year, we introduce the amazing 120g Hardcore™ Headset, the toughest and among the lightest ever yet ridden. The new CattleHead™ DH stem designed to withstand the extreme rigors of full-on downhill racing. A Super-Lightweight 7075 Aluminum Chainring Set. And more. Like the new Syncros Snowboard, when you need your stimulant on ice. And our new line of Bad Goods™ casual clothing. Because it's about time someone put the funk into function.

But however old or new, each Syncros component is conceived and built with the same unremitting passion and craftsmanship as the first. With the same curiosity, the same need to feel, fear and enliven our senses, that first inspired our journey.

We invite you to explore our new catalogue, to discover what's inspired our decade-long adventure, in the hopes that they'll help propel you along your own unrequitable quest.



pain
is inevitable
misery
is optional

HAND BUILT STATE OF THE MIND TECHNOLOGY



"WHAT DOESN'T KILL YOU MAKES YOU STRONGER."

The quest is born out of a singular need. Survival. So is our rabid devotion to design and testing. It's fueled by a resolve to craft components that will endure the biffs, bails and face-plants of our own perilous and unforgiving journey. Only here, there's no room for recklessness, randomness or fleeting trends. The standards must be as relentless and unerring, as treacherous and insane, as the trail itself.

Every Syncros component is conceived out of the body's need for perfect union with its surroundings (ergonomics, that is). The process begins inside the virtual world of the computer. Here, cutting-edge CAD technology (Computer Aided Design), 3-D solid modeling and FEA analysis allows us to simulate a myriad of external forces, to analyze the response of the metals under stress, to hone the design and eliminate potential areas of weakness. All before a gram of space-age alloy is ever machined. In this infinite world, the skill, intuition and imagination of the design team is allowed to soar, free of the mundane limitations and constraints of the real world.

Then, the prototype is built. And the exhaustive torture testing begins.

It all starts with "The Blue Meany". As relentless and merciless as the most fearsome trail you could conceive, this mechanical beast gradually pushes each new and pristine component to the point of failure and beyond. All the while monitoring force, deflection and micro-strain. It's the only way to achieve optimal strength and stiffness for a lifetime of exhilarating and bomb-proof rides.



Able to deliver bone-crushing blows (in a single bound), the "Impact Tester" simulates a component's response to an all-out crash. It's a highly unforgiving process. But it offers vital insight into how a component fails during the mother of all bails. Brutal, yes. But it's the only way to prepare for a world where only the strongest survive.

Of course, a component's greatest enemy in the eternal search for adrenaline is the years of perpetual abuse. Which brings us to the next stage. Fatigue Testing. Every Syncros prototype is subjected to millions of cycles of stress. Simulating the savage slamming and thrashing that goes into years worth of hardcore rides. It's the most rigorous fatigue testing in the cycling world. And that's no hype.

Once all the machines are satisfied, it's on to the most exacting test of all. The local psycho bros'. With state-of-the-art component-mounted strain gauges and accelerometers in tow, our team of psychotic (but friendly) test riders take new components



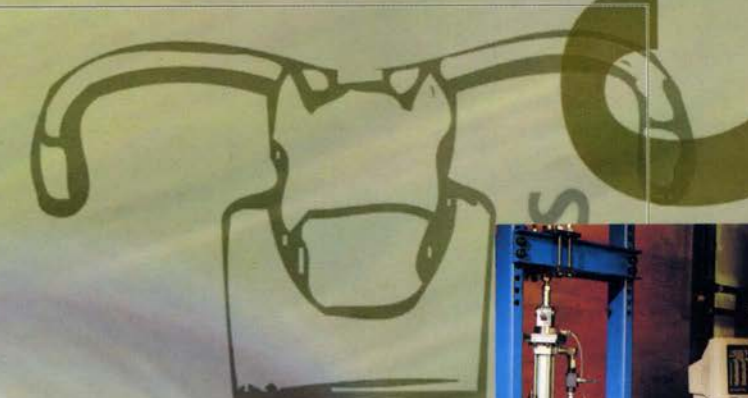
through a series of highly sadistic tests – from 6-foot jumps to 50 mph downhill – in search of feedback about performance and feel that only a human being can provide.

Overkill, sure. But it's the path that's led us to build some of the most remarkable bike components in the world. Like the Syncros Revolution Crankset, perhaps the strongest cranksets in the world at a record breaking 460g. Or the Hardcore Ti Bottom Bracket. At 155g, it achieves a balance of rigidity and light-weight that is the touchstone of the biking world. Likewise our original Cattleprod Stem and Pro Series Seatpost, which we to refine and improve with every passing year. All in our tireless bid to achieve perfect harmony between rider and machine, allowing the bike to disappear in a blur.

relentless standards+fearsome trail+torture²-vfatigue impact tests³= perfect harmony

prototype

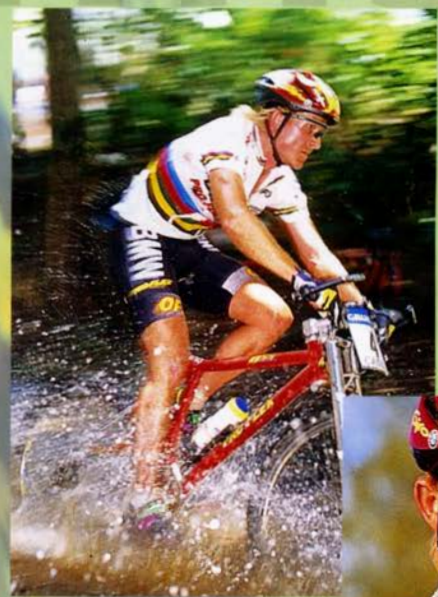
0
3
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five

**"THE MEEK
SHALL BE EATEN**

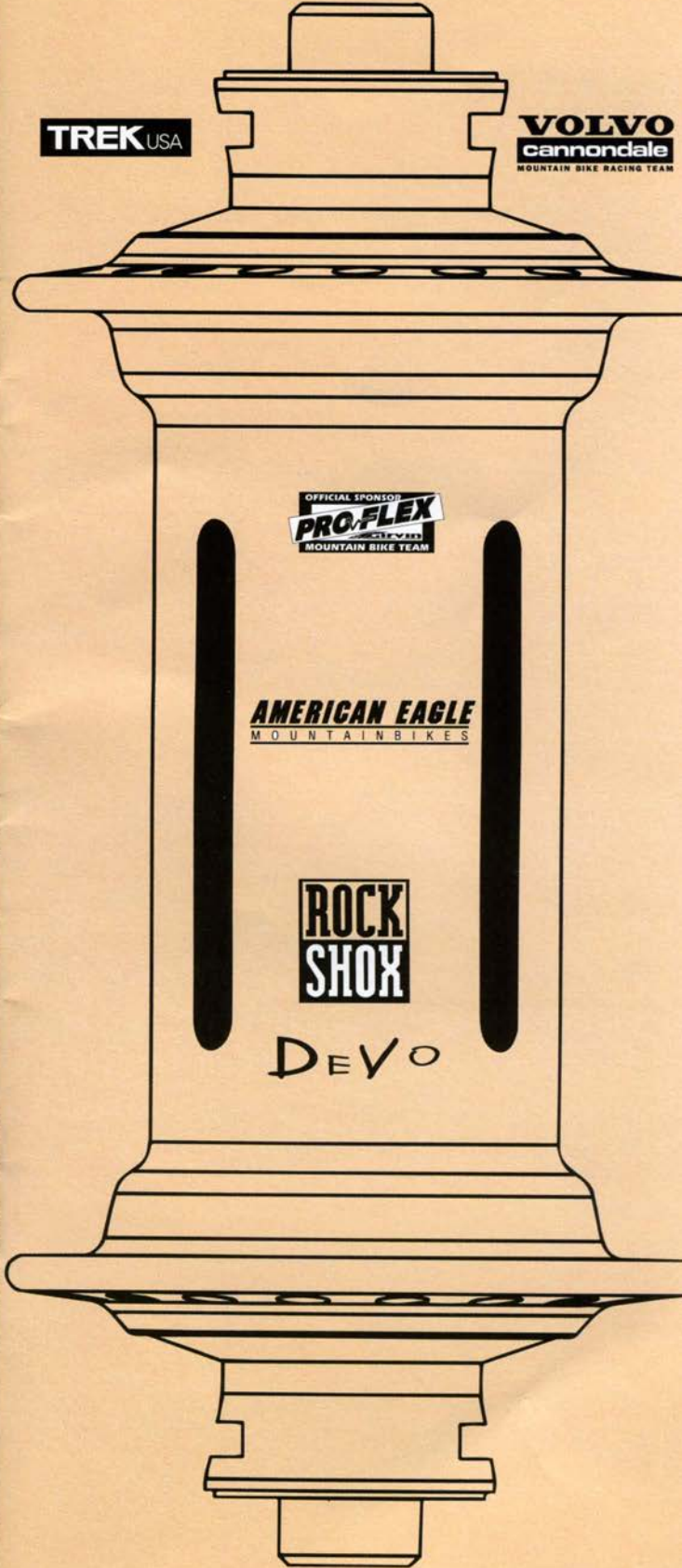
To race is to live in the extremes. To pursue ecstasy. While courting disaster. To be aroused by the promise of victory...And the threat of defeat. To persevere and prevail where others retreat. We know. We race. And those with whom we race have placed their trust in us. In our commitment. And our passion. They're an impressive lot. Missy Giove, the current Women's downhill World Champion. Tinker Juarez, '95 Pan Am Games Gold Medalist. Alison Sydor, the current World X-C Champ and the entire Volvo Cannondale team. Then there's the BMW Proflex Team, led by Henrik Djernis, 3peat Men's World X-C Champion. And the list goes on. '95 Grundig World Cup Champion Bart Brentjens and the American Eagle Team. Canada's own Brian Walton, '95 Pan Am Games Gold Medalist. And many more. All unique in their desires, passions, and what propels them forth. But all united by an unremitting commitment to excellence. To victory. To life at the extremes.



Whatever your passion, whatever your need whether you demand the uncompromising lightness of our Pro Series components for the ultimate race-winning edge. Or the indestructibility of our Hardcore Series for life at the most unstable edge. Or the lightning responsiveness of our Altura Series when the road is paved and the object is speed. The promise is always the same. In every component we build. With an offering of sizes and specifications to guarantee optimal fit and function to one and all. Whatever your size and however insane the magnitude of your adventure. From a single-track through Purgatory to the lead peleton in the Tour De France. Because the race of a lifetime takes place deep within. Where there is little room for error. And even less so for excuses.



promise
victory
threat
of
defeat



Hardcore Headset

Technical Specifications:

Material	
Top race:	7075 T6 Hard anodized aluminum alloy, CNC machined
Cups:	7075 T6 Hard anodized aluminum alloy, CNC machined
Boot:	Delrin™ advanced polymer
Bearings:	Upper: INA radial, contact double sealed cartridge Lower: INA custom, bidirectional angular, contact double sealed cartridge
Crown race:	17/4PH stainless steel alloy, heat treated, CNC machined
Lower seal:	Teflon (backed with Nitril O - ring spring)
Weight:	120 grams -1-1/8" Ø
Sizes	1" ,1-1/8' Ø



HARD CORE HEADSET

Features + Benefits
CNC machined Al 7075 T6 cups & top race

Ultra high precision, perfect bearing fit, no fretting or misalignment, light weight, high strength, durable
Hard coat anodized (Rc72) .001" thick (.025mm)

Strong, durable, prevents cups from freezing into frame, eliminates corrosion and galling.

Snap on Delrin™ boot & Teflon™ lower piston ring

Impact resistant, waterproof, sealing mechanism, low friction, positive contact seal with O ring preload spring keeps water, dirt & grunge out of lower bearing

Non-contact labyrinth upper shield

Frictionless seal keeps water, dirt & grunge out of upper bearing

Double O ring seal inside top race

Keeps water & grunge from contaminating lower bearing, aids system alignment

INA double sealed upper cartridge bearing

Low friction, precision ground races handle pure radial loads, high overload capacity. German quality

INA double sealed bi directional angular contact lower cartridge bearing

Handles radial and thrust loads, durable, increases system rigidity, triples bearing life, high overload capacity. German quality



bro
123456789

CATTLEPROD STEM

Features + Benefits

Custom drawn Al 6061T6 aircraft grade tubing

High strength, low modulus material absorbs energy, damps vibration, smooths out rough surfaces, highly resistant to shock and impact loading.

Huge section, thin wall, differentially tapered extension tube

Extra stiff tubular design for maximum resistance to bending. Power for climbing and control in rocky sections are improved. Ultra strong.

Monoque handlebar clamp assembly, computer machined from billet

Generates extremely high clamping pressure for maximum handlebar retention.

Extra wide twin bolt clamp assembly

Reduces handlebar stress from clamping.

Beveled quill top with counter sunk bolt head

Low profile design and reduced vertical protrusion minimizing chance of injury from impact.

Powder coat finish

Matte, virtually chip proof finish, no dangerous chemicals used in coating or clean up.

Z-bolt expander bolt

High strength zical, 1/2 the weight of titanium and 3 times strength to weight ratio of steel.

Heat treated threaded steel insert and zinc plated pinch bolts

High strength, corrosion resistant fastening system.



Cattleprod

Technical Specifications:

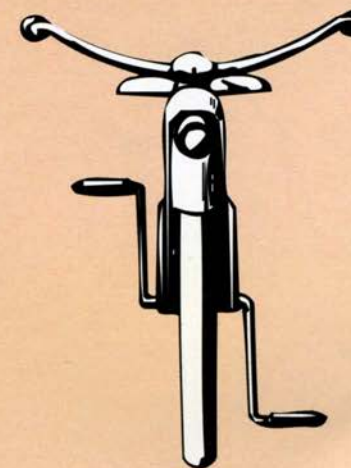
Material	
Stem:	Wrought 6061T6 aluminum alloy, hand TIG welded, solution heat treated & artificially aged, epoxy powder coated or polished finish
Pinch bolts:	4340 Cromo, heat treated, zinc plated
Expander bolt:	Ceramic coated Zical alloy
Thread:	M8 x 1.0 cold rolled
Weight:	215g - 120 x 0° x 1" Ø quill, polished
Sizes	
Length:	110 - 150 x 10mm
Rise:	Low 0°, High 15°
Quill Ø:	7/8" (22.2mm) for 1" fork 1" (25.4mm) for 1 1/8" fork 1 1/8" (28.6mm) for 1 1/4" fork



Hang Doggy

Technical Specifications:

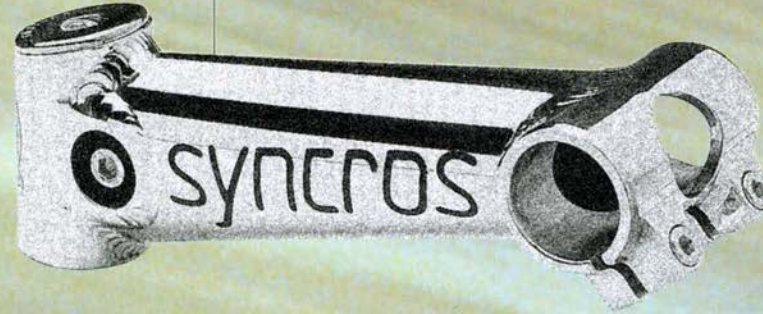
Material	
Hanger Body:	6061T6 aluminum alloy
Cable Guide:	Brass alloy 360
Weight:	30g



Cattlehead

Technical Specifications

Material	
Stem:	Wrought 6061T6 aluminum alloy, hand TIG welded, solution heat treated & artificially, aged, epoxy powder coated or polished
Pinch bolts:	4340 Cromo, heat treated, zinc plated
Cap/Wedgeloc:	Die cast A36T6 aluminum alloy, 27g.
Thread:	M6 x 1.0
Sizes	
Length:	110 - 150 x 10mm
Rise:	Low 0°, High 15°
Steerer clamp Ø:	1" (25.4mm) for 1" fork 1 1/8" (28.6mm) for 1 1/8" fork
Weight:	180g - 120 x 0° x 1" Ø polished, excluding cap/wedgeloc
Sizes DH:	
Length:	110, 120, 130, 140mm
Rise:	25°
Steerer clamp Ø:	1 1/8" (28.6mm) for 1 1/8" fork
Weight:	220g - 130 x 25° x 1 1/8" Ø polished, excluding cap/wedgeloc



CATTLEHEAD STEM

Features + Benefits

Custom drawn Al 6061T6 aircraft grade tubing

High strength, low modulus material absorbs energy, damps vibration, smooths out rough surfaces, highly resistant to shock and impact loading.

Huge section, thin wall, differentially tapered extension tube

Extra stiff tubular design for maximum resistance to bending. Power for climbing and control in rocky sections are improved. Ultra strong.

Split cotter clamp mechanism

Clean, strong, positive fastening system. No pinch bolts to bash your knees on. Easy to adjust.

Wedge lock (patent pending)

Replaces "star fangled washer" on Ahead™ Set. Provides more surface area contact in fork steerer for more solid headset adjustment that won't vibrate loose.

Beveled, cast aluminum top cap

Low profile design and reduced vertical protrusion minimizing chance of injury from impact.

Monoque handlebar clamp assembly, computer machined from billet

Generates extremely high clamping pressure for maximum handlebar retention.

Extra wide twin bolt clamp assembly

Reduces handlebar stress from clamping.

solid
control

ALTURA STEM

Features + Benefits

Custom hard drawn AI 6061T6 aircraft grade tubing

High strength, low modulus material absorbs energy, damps vibration, smooths out rough road surfaces, highly resistant to shock and impact loading.

Large section bi-oval shape with variable thickness walls

Extra stiff tubular design for maximum resistance to bending. Power transfer and control in sprints and out of the saddle climbing are greatly enhanced.

Monoque handlebar clamp assembly, computer machined from billet

Generates extremely high clamping pressure for maximum handlebar retention.

Beveled quill top with counter sunk bolt head

Low profile design and reduced vertical protrusion minimizing chance of injury from impact.

Z-bolt expander bolt

High strength zical, 1/2 the weight of titanium and 3 times strength to weight ratio of steel.

Powder coat finish

Matte, virtually chip proof finish, no dangerous chemicals used in coating or clean up.

Heat treated threaded steel insert and zinc plated pinch bolt

High strength, corrosion resistant handlebar fastening system.



function ^{and} fit

Altura Stem

Technical Specifications

Material	Wrought 6061T6 aluminum alloy, hand TIG welded, solution heat treated & artificially aged, epoxy powder coated or polished
Pinch bolt:	4340 Cromo, heat treated, zinc plated
Expander bolt:	Ceramic coated Zical alloy Thread: M8 x 1.0
Weight:	200g - 110mm
Sizes	
Length:	70 - 150mm x 10mm (110 - 130 x 5mm)
Angle:	-17.5°, 0°
Quill Ø:	22.2mm
Clamp Ø:	26.0mm, 26.4mm



If you've gone over the edge and biffed bigtime, we're there to help with the Hardcore Competition Cane, Aerospace aluminum alloy, 450g.

Hardcore Bar

Technical Specifications:

Material
Easton Ea 70 cold drawn, bulge formed, taper wall aluminum, hard black or clear anodized over polished finish.

Weight: 140 grams

Bends: 5° bend, 0° unbent



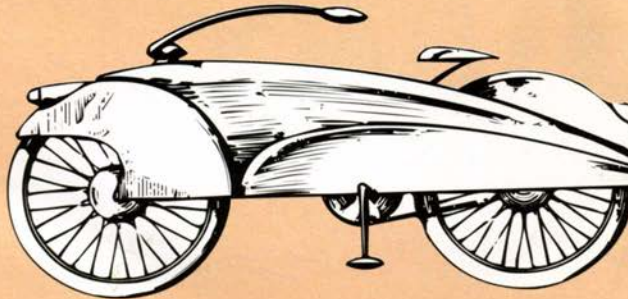
Pro Bar

Technical Specifications:

Material: 3AL2.5V titanium alloy, heat treated, natural

Weight: Ti - 155g

Bends: 5° bend, 0° unbent

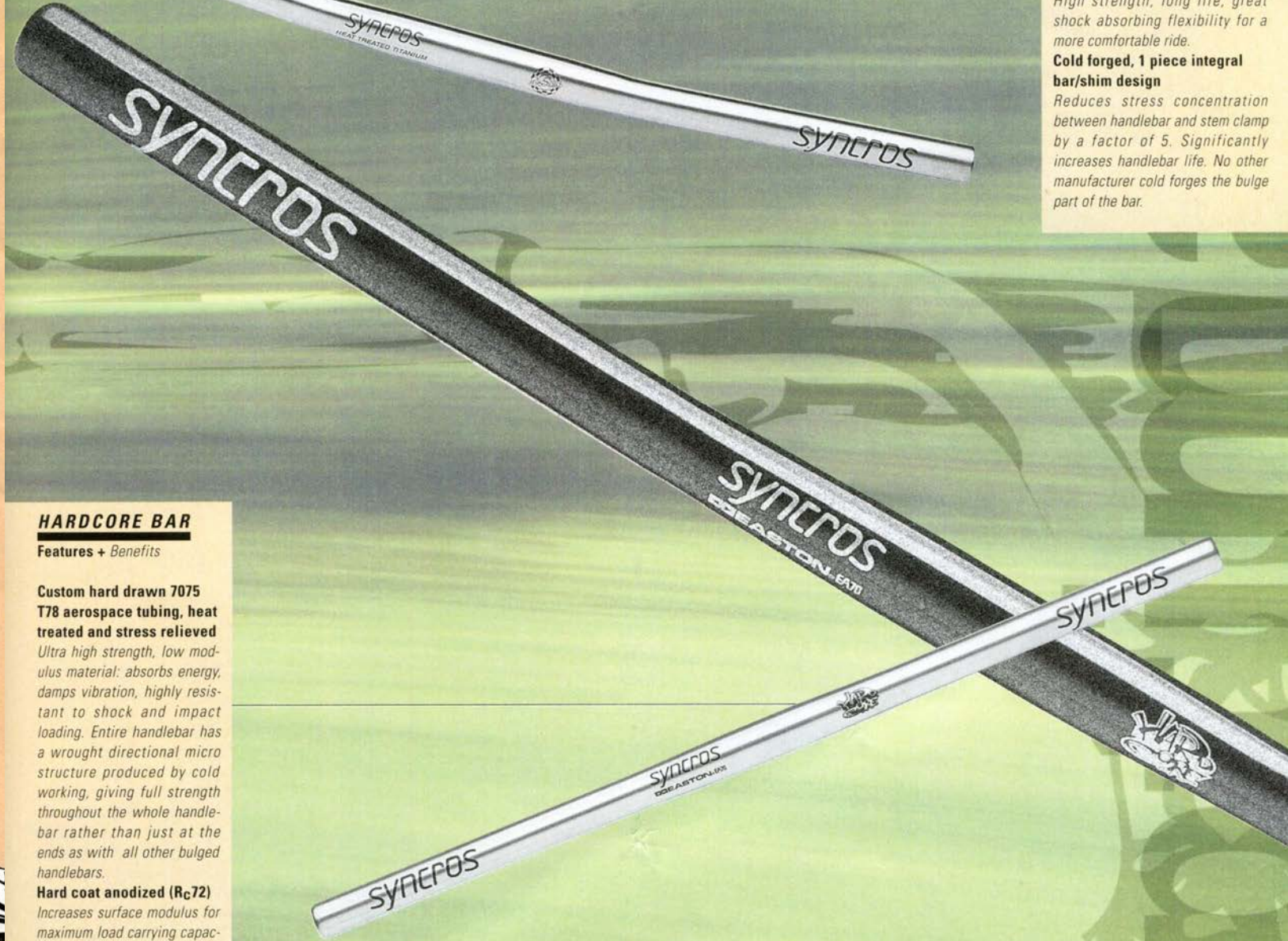
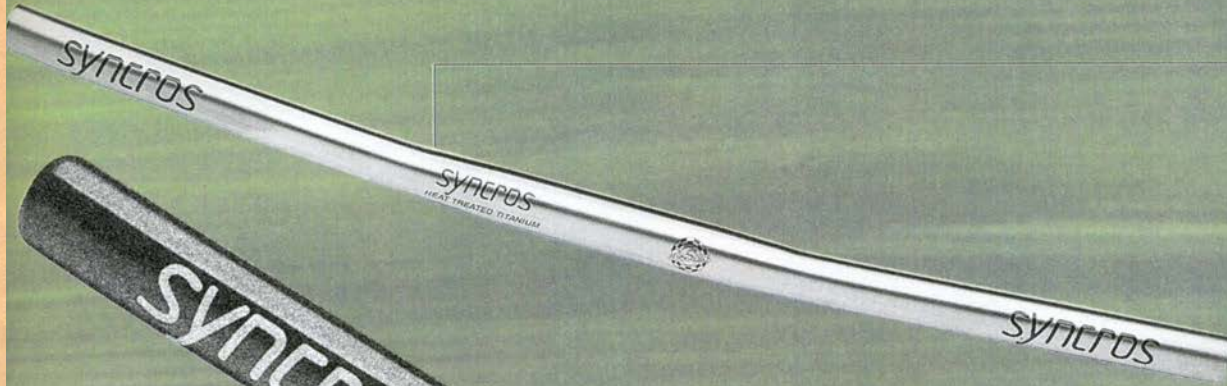


HARDCORE BAR

Features + Benefits

Custom hard drawn 7075 T78 aerospace tubing, heat treated and stress relieved
Ultra high strength, low modulus material: absorbs energy, damps vibration, highly resistant to shock and impact loading. Entire handlebar has a wrought directional micro structure produced by cold working, giving full strength throughout the whole handlebar rather than just at the ends as with all other bulged handlebars.

Hard coat anodized (Rc72)
Increases surface modulus for maximum load carrying capacity, eliminates corrosion, provides a hard, scratch resistant surface for control lever mounting.



PRO SERIES HANDLEBAR

Features + Benefits

Aircraft certified Ti 3Al2.5V titanium, hard drawn and heat treated

High strength, long life, great shock absorbing flexibility for a more comfortable ride.

Cold forged, 1 piece integral bar/shim design

Reduces stress concentration between handlebar and stem clamp by a factor of 5. Significantly increases handlebar life. No other manufacturer cold forges the bulge part of the bar.

HARDCORE AND PRO POST

Features + Benefits

HARDCORE - Custom hard drawn, Al 7075 T78 alloy, heat treated and stress released

2 1/2 times the strength of regular extruded 6061 or 6063 alloys, 1/5 the shock transmission of Cromo.

Hard coat anodized (Rc72) .001" (.025mm) thick

High modulus surface finish increases strength, eliminates corrosion and reduces chances of seat post seizing inside seat tube, good abrasion resistance for long life, gorgeous gloss black finish.

Grade 12.9 heat treated cromoly alloy bolts

Highest strength bolts made.

PRO - Custom seamless drawn Ti 3Al2.5V titanium aerospace tubing

High strength Ti alloy provides superb resilience and flex for an extremely smooth, comfortable ride.

BT-16 Titanium alloy bolts

Same strength as cromoly, half the weight.

HARDCORE & PRO

Twin "jacking bolt" design

Permits true micro adjustment of seat position, allows the use of super light 5mm bolts, eliminates the need for ridges and teeth on interfacing

adjusting surfaces which can easily strip, provides extremely solid clamping.

Medium lay back offset

Optimizes seat adjustment range for use with modern frame designs.

Contoured rear bolt seat

Allows smooth operation of rear bolt for full range saddle adjustment without bending bolts.

Saddle joined to pillar by anaerobic shrink fit

Immovable joint provides 12,000 + lb hold.

Al 7075T6 alloy saddle

High strength, large surface area clamps saddle rails with authority, infinitely adjustable.

Custom extruded Al 6061T6 alloy cap

High strength, light weight "bridge" type structure won't bend or flex.

Bronze rotary nuts

Allows full range adjustment without bending bolts.

Pro Post / Altura Post

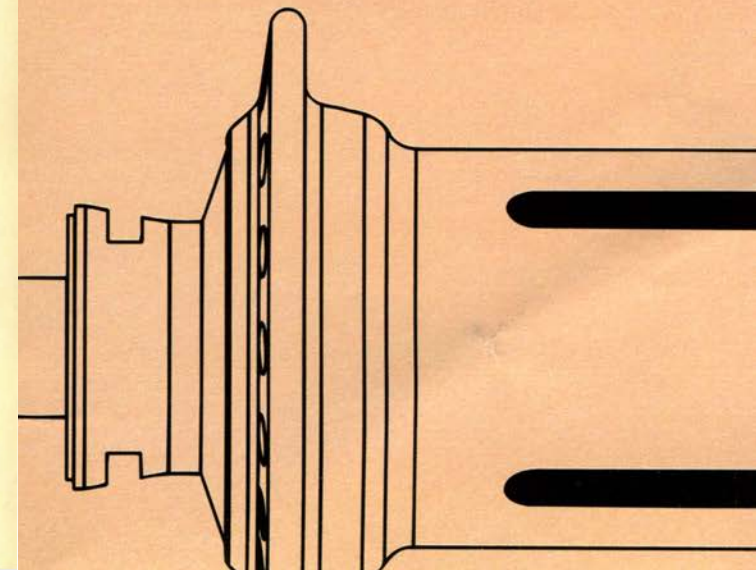
Technical Specifications:

Material	
Pillar:	3Al2.5V titanium alloy, heat treated, natural finish
Bolts:	M5 x .8, BT13 titanium alloy, heat treated, rolled thread
Saddle:	7075 T78 aluminum alloy, cold forged, CNC machined
Cap:	Custom extruded 6061 T6 aluminum alloy
Cradle:	Custom extruded 6061 T6 aluminum alloy
Rotary Nuts:	Brass alloy 360
Contour Washer:	Brass alloy 360
Weight:	185g - 27.0 Ø x 330mm
Length:	225mm
Sizes:	Ø 26.8, 27.0, 27.2, 27.4,
Length:	330mm
Sizes:	Ø 26.8, 27.0, 27.2, 27.4, 28.6, 29.2, 29.4, 29.6, 29.8, 31.6, 31.8,

Hardcore Post / Altura Post

Technical Specifications:

Material	
Pillar:	7075T78 aluminum alloy, heat treated, cold drawn, seamless, precision machined, black anodized
Bolts:	M5 x .8, 4340 cromoly, heat treated, zinc plated
Saddle:	7075 T78 aluminum alloy, cold forged, CNC machined
Cap:	Custom extruded 6061 T6 aluminum alloy
Cradle:	Custom extruded 6061 T6 aluminum alloy
Rotary Nuts:	Brass alloy 360
Contour Washer:	Brass alloy 360
Weight:	220g - 27.0 Ø x 330mm
Length:	225mm
Sizes:	Ø 26.0, 26.2, 26.4, 26.6, 26.8, 27.0, 27.2, 27.4
Length:	330 - 425mm
Sizes:	Ø 26.0 - 31.8mm x 2mm, + 30.9mm



Hardcore DH hub

Technical Specifications:

Material	
Hub Shell:	7075 T6 aluminum alloy,CNC machined and hard anodized
Lock Nuts:	7075 T6 aluminum alloy,hard anodized
Pre Load Nuts:	7075 T6 aluminum alloy,hard anodized
Axle:	AISI 4340 nickel cromoly alloy, heat treated, CNC machined
Weight:	Hub: 175 g Bolts: 15g
Sizes	
Drilling:	32, 36 hole
Compatibility:	Spoke hole pitch diameter: 39.75 mm
Flange Spacing:	66 mm

Hardcore hub

Technical Specifications:

Material	
Hub Shell:	7075 T6 aluminum alloy,CNC machined and hard anodized
Lock Nuts:	7075 T6 aluminum alloy,hard anodized
Pre Load Nuts:	7075 T6 aluminum alloy,hard anodized
Axle:	Zicral alloy, heat treated CNC machined and ceramic coated
Weight:	125 g
Sizes	
Drilling:	28, 32, 36, hole
Compatibility:	Spoke hole pitch diameter: 39.75 mm
Flange Spacing:	66 mm

Hardcore Sachs disc brake compatible hub

Technical Specifications:

Material	
Hub Shell:	7075 T6 aluminum alloy,CNC machined and hard anodized
Lock Nuts:	7075 T6 aluminum alloy,hard anodized
Pre Load Nuts:	7075 T6 aluminum alloy,hard anodized
Axle:	AISI 4340 nickel cromoly alloy, heat treated, CNC machined
Weight:	Hub: 185 g Bolts: 15g
Sizes	
Drilling:	32, 36 hole
Compatibility:	Spoke hole pitch diameter: Disc side 60 mm, other side 39.75mm
Flange Spacing:	Lock nut to disc side 30mm, Lock nut to other side 17mm

HARDCORE DH SACHS DISK BRAKE COMPATIBLE FRONT HUB

Features + Benefits

One piece precision CNC machined Al 7075 hub shell

Super strong, perfect bearing alignment for low friction & longer bearing life than 3 piece hub designs.

Hi-lo flange hub shell

Builds a stronger wheel by reducing dish. Shorter spokes on rotor side increase stiffness and braking response.

Oversize, 15mm, Heat treated nickle cromoly axle

Extra stiff for accurate tracking, minimizes wheel flop associated with suspension forks and disc brakes, design loads input forces on widest part of axle, 3X stiffer than Al, 2X stiffer than MMC axles.

INA precision ground, double sealed cartridge bearings

Frictionless rolling & longer bearing life, German quality.

Positive contact, spring preloaded Teflon™ piston ring seals

Ultra low friction, fully waterproof sealing sytem extends bearing life

Hard anodized pre load nuts

Permits exact bearing adjustment

Hard anodized lock nuts

Ultra rigid bearing adjustment, large abutment diameter increases system rigidity.

Cabriolet design

Ti axle bolts increase system rigidity 2.5X over QR, easily converts to QR.

6 bolt rotor attachment

Strong, secure mounting for disc brake rotor.



HARDCORE AND HARDCORE DH HUBS

Features + Benefits

One piece precision CNC machined Al 7075 hub shell

Super strong, perfect bearing alignment for low friction & longer bearing life than 3 piece hub designs

Wide flange shell

Increased triangulation of spokes builds a stronger wheel.

Hardcore axle

Oversize, 15mm, ceramic coated Zicral

Stiff for accurate tracking, minimizes wheel flop associated with suspension forks, design loads input forces on widest part of axle.

Hardcore DH axle

Oversize, 15mm, heat treated nickel cro-moly

Extra stiff for accurate tracking, minimizes wheel flop associated with suspension forks, design loads input forces on widest part of axle, 3X stiffer than Al, 2X stiffer than MMC axles.

INA Precision ground, sealed cartridge bearings

Frictionless rolling & longer bearing life, German quality.

Positive contact, spring preloaded Teflon™ piston ring seals

Ultra low friction, fully waterproof sealing sytem extends bearing life.

Hard anodized pre load nuts

Permits exact bearing adjustment.

Hard anodized lock nuts

Ultra rigid bearing adjustment, large abutment diameter increases system rigidity.

Hardcore - Cabriolet design

Easily converts to Ti axle bolts for increased (2.5X) system rigidity.

Hardcore DH - Cabriolet design

Ti axle bolts increase system rigidity 2.5X over QR, easily converts to QR.



any questions

CRANKS

Features + Benefits

Custom drawn True Temper OX3, heat treated cromoly, tubular arms

3X stiffer, 2X stronger than aluminum, flex free power transmission, less wasted energy and more speed.

125 ton cold forged taper socket
Increases metal hardness in taper for a stronger, more durable fit onto bb spindles.

1 piece Powerdisc spider
Reduces chainring deflection and optimizes power transfer.

Titanium inner chainring nuts & bolts, cold rolled threads
Lightweight, corrosion resistant, high resistance to stripping and cross threading, ultra high precision. Rolled threads are stronger than cut threads.

Powder coat finish
Matte, virtually chip proof finish, no dangerous chemicals used in coating or clean up.



C-O-M

Features + Benefits

Ti 6-4 titanium
Ultra high strength, excellent corrosion resistance.

Class 2, cold rolled thread
High resistance to stripping and cross threading, ultra high precision. Rolled threads are stronger than cut threads.

Extra deep socket
Accepts full torque (18-25 ft. lb.) from Allan key without deforming or stripping.

Tiodize II and TioLube 460 surface coating
Coating permanently impregnates bolts, eliminates galling and seizing; allows bolts to be used in Titanium bottom bracket spindle.

Oil filled, sintered bronze bushings
Low friction, low wear bearing surfaces, allows smooth operation of the bolt which improves retention and eases removal.

Zicral alloy cap
Ultra high strength fastener stock, 1/2 the weight of Titanium.

Hard coat anodized (Rc72) .001" (0.25mm) thick
Prevents threads from freezing and eliminates corrosion and thread galling.



Crank

Technical Specifications:

Material	
Arms:	Custom drawn True Temper, OX3, heat treated cromoly, epoxy powder coat finish
Spider:	7075T6 aluminum alloy, anodized black
Bolts:	6-4 titanium alloy, cold rolled thread
Power plate:	2024T3 aluminum alloy, heat treated, CNC machined, cold forged
Weight:	460g - 175mm
Sizes	
Length:	165, 170, 172.5, 175, 177.5, 180mm
Fits:	Road: 109mm bb Mtn: 117mm bb 74 - 110 bolt pattern (mtn) 58 - 94 bolt pattern (compact) 130 bolt pattern (road)

C-O-M

Technical Specifications:

Material	
Bolt:	Ti6Al4V Titanium alloy M8 x 1.0 cold rolled thread
Washers:	Bronze thrust bearings
Cap:	Hard anodized Zicral alloy
Thread:	M22 x 1 roll formed
Weight:	18g/pair



Relax

Hardcore Chainrings

Technical Specifications:

Material

7075 T6 aluminum alloy, CNC machined and hard anodized

Compatibility: 74 - 110mm bolt spacing, 58 - 94mm bolt spacing

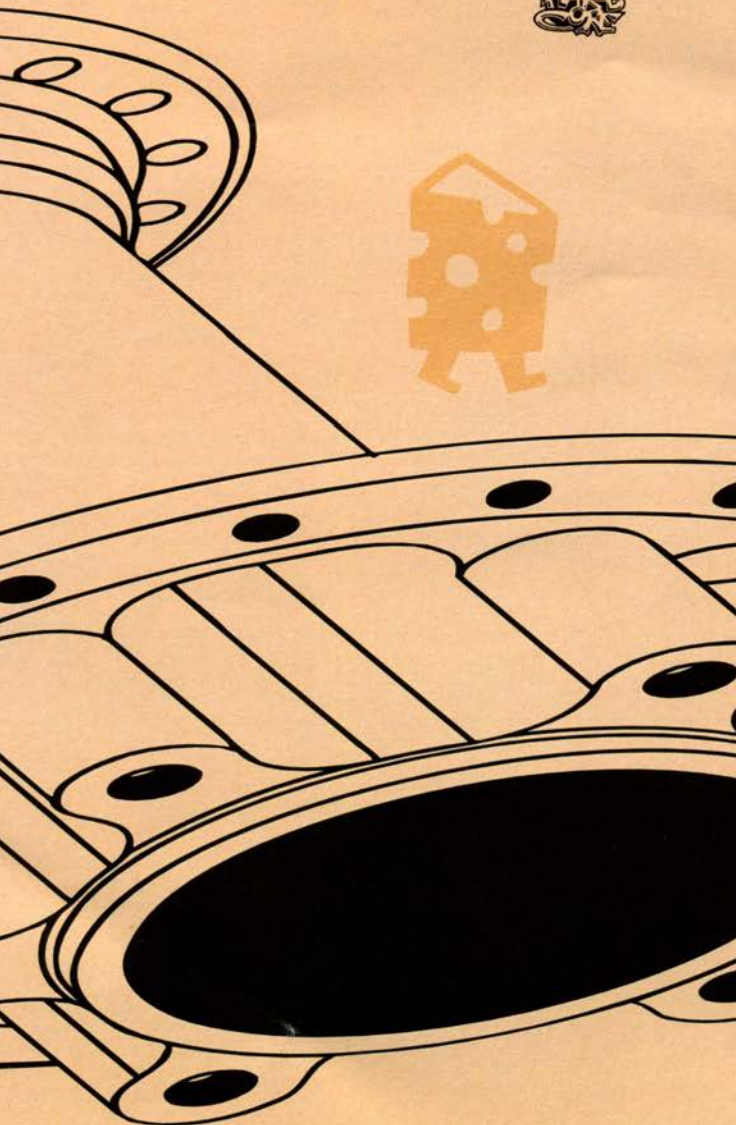
Sizes

74mm: 24T

110mm: 36, 38, 46, 48, 50, 60T

58mm: 20, 22T

94mm: 32, 34, 36, 42, 44, 46, 60T



HARDCORE CHAINRINGS

Features + Benefits

Heat treated Al 7075 T6

Ultra hard alloy resists wear & deflection, reduces chain suck, 1/2 weight of Ti, 1/3 weight of steel, 2.5X stronger than 6061T6 Al.

Hard ceramic coating (Rc 72) .001" (0.025mm) thick

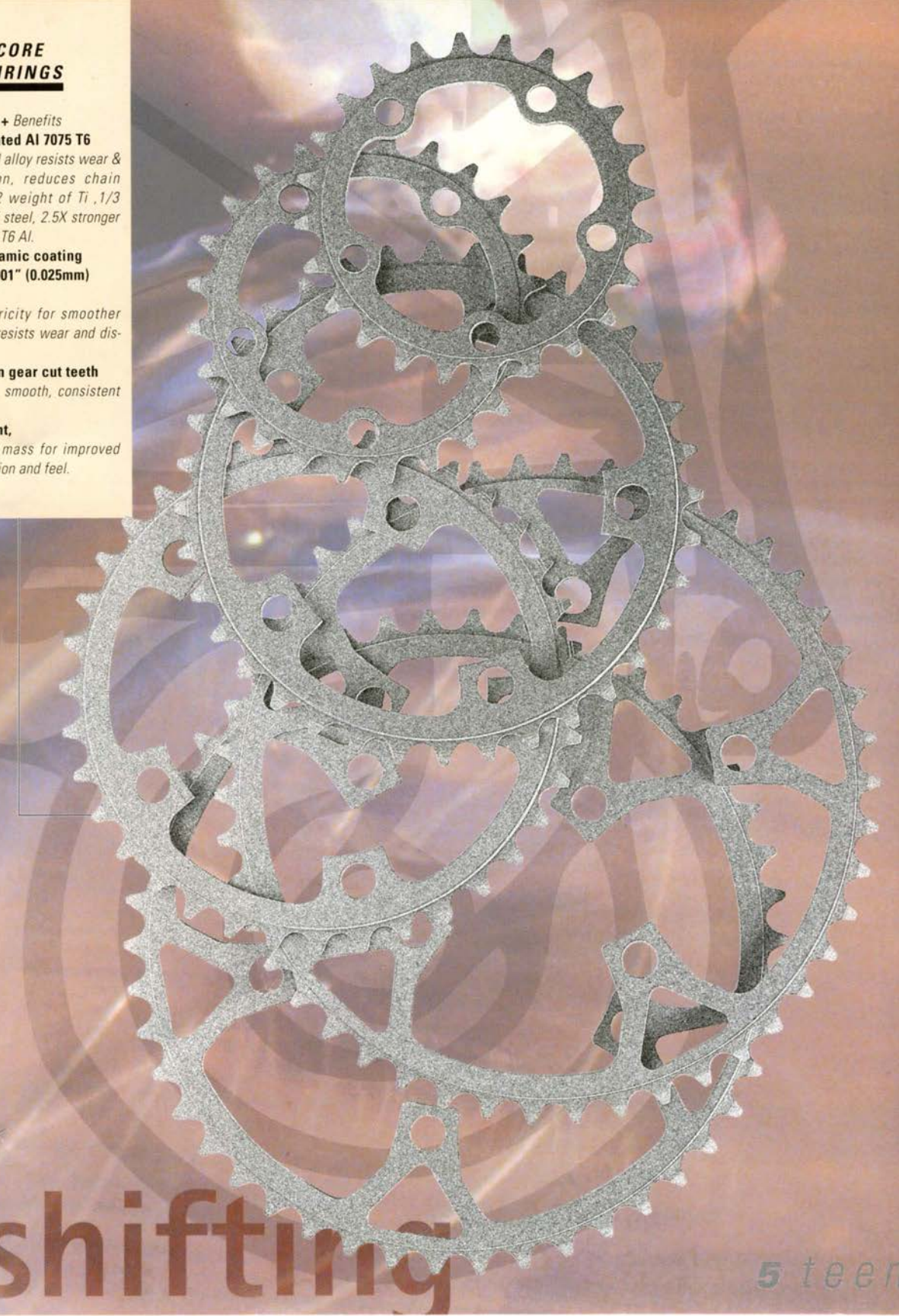
High lubricity for smoother shifting, resists wear and distortion

Precision gear cut teeth

Noisless, smooth, consistent shifting

Ultra light,

Reduced mass for improved acceleration and feel.



other shifting

5 teeth

HARDCORE/ALTURA BB

Features + Benefits

CNC machined Ti6246 titanium heat treated spindle

40% stronger than conventional Ti6-4, 60% stronger and half the weight of cromo.

Outboard bearing position

Reduces spindle flex (crucial with Ti spindles) increases bearing life and spindle strength, simulates 73mm bb shell width on all bikes.

Hollow ground spindle flats

Dished, tapered flats increase drive on spindle corners.

Hollow gun drilled

Light weight.

Wrought 6061T6 alloy Cups

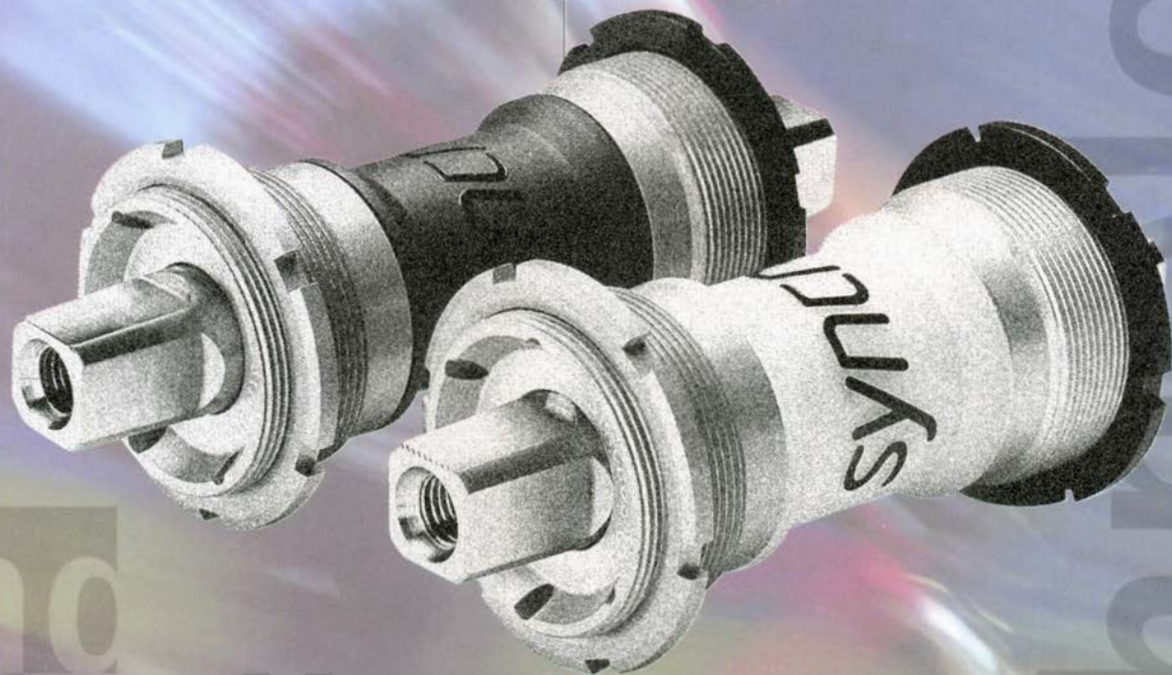
High strength, 1/3 of the weight of cromo, excellent corrosion resistance.

Hard coat anodized (Rc72) .001" thick (.025mm)

Strong, durable thread, prevents cups from freezing into frame, eliminates corrosion and thread galling.

7075 T6 alloy, micro-adjustable lock rings

Chain line can be micro adjusted to optimize front shifting, allows the use of a spindle 5mm shorter than usual.



Quad ring seals at spindle/cup interface

Holds lubricant in a labyrinth for extremely low friction and full contact seal to keep dirt out of bearings.

O-ring seals on water sleeve

Seals bb cavity, minimizes water aspiration into bearings.

HARDCORE

Double row, angular contact bearings

Increases system rigidity, triples bearing life, high overload capacity.

ALTURA

Deep groove radial contact bearings

Ultra low friction



Hardcore BB

Technical Specifications:

Material	
Spindle:	6Al 2Sn 4Zr 6Mo titanium alloy, heat treated, CNC one piece machined,
Cups:	Hard anodized 6061 T6 aluminum alloy, cold rolled thread
Lock rings:	7075 T6, aluminum alloy, right hand thread - gold anodized, left hand thread - black anodized, Italian thread - red anodized
Bearings:	INA custom, double row, angular contact, double sealed, cartridge bearing
Weight:	180 grams - 113 mm spindle
Sizes	
Spindle:	107, 108, 113, 117.5, 122.5, 127.5, 131 mm
Cups:	1.370 x 24T.P.I., LH, RH (English)



Altura BB

Technical Specifications:

Material	
Spindle:	6Al 2Sn 4Zr 6Mo titanium alloy, heat treated, CNC one piece machined,
Cups:	Hard anodized 6061T6 aluminum alloy, cold rolled thread
Lock rings:	7075 T6, aluminum alloy, right hand thread - gold anodized, left hand thread - black anodized, Italian thread - red anodized
Bearings:	INA deep groove, radial contact, double sealed, cartridge bearing
Weight:	140g - 103mm spindle.
Sizes	
Spindle:	103, 111, 113mm
Cups:	1.370 x 24T.P.I., LH, RH (English) 36mm x 24T.P.I. RH (Italian)

Technical Specifications:

153.5 Syncros

Material Length:	154.5 cm
Formed Length:	153.5 +/- cm
Base Contact Length:	123.6 +/- cm
Effective Edge Length:	121.0 cm
Nose/Tail Width:	28.58 cm
Waist Width:	24.00 cm
Nose/Tail Length:	16.75 cm
Sidecut Radius:	800 cm
Sidecut Depth:	2.29 cm
Nose/Tail Kick:	5.50 cm
Camber:	1800 cm
Stance:	4x4, 10 x 10 pack - centred 17.5 - 27.1" / 44.5-69.0 cm

Rider Weight: 95-175lbs. 43-79.5kg

158.5 Syncros

Material Length:	159.5 cm
Formed Length:	157.5 +/- cm
Base Contact Length:	128.0 +/- cm
Effective Edge Length:	125.8 cm
Nose/Tail Width:	28.79 cm
Waist Width:	24.13 cm
Nose/Tail Length:	16.85 cm
Sidecut Radius:	850 cm
Sidecut Depth:	2.33 cm
Nose/Tail Kick:	5.80 cm
Camber:	1800 cm
Stance:	4x4, 10 x 10 pack - centred 17.5 - 27.1" / 44.5-69.0 cm

Rider Weight: 130-210lbs./ 59-95.5 kg

163.5 Syncros

Material Length:	164.5 cm
Formed Length:	162.5 +/- cm
Base Contact Length:	131.6 +/- cm
Effective Edge Length:	130.3 cm
Nose/Tail Width:	29.23 cm
Waist Width:	24.51 cm
Nose/Tail Length:	17.10 cm
Sidecut Radius:	900 cm
Sidecut Depth:	2.40 cm
Nose/Tail Kick:	6.50 cm
Camber:	1800 cm
Stance:	4x4 10x12 pack 17.0 - 27.7" / 43.2 - 70.3 cm

Setback: 2.50 cm
Rider Weight: 140lbs./65kg+

MATERIAL:

Glassing:	0 Deg. x 90 Deg Armtex Precure
Resin:	Jeffco Grizzly Epoxy Laminating
Dampening:	Haberkorn 0.2mm Rubber Foil
Core:	Jamnkraft Vert.- laminated wood
Edges:	48 Rockwell Hardness
Sidewalls:	A B S Polymer
Base:	Sintered - Durasurf 2001
Inserts:	Inox steel alloy; 6mm x 1mm
Graphics:	Screened Epoxy
Finish:	Matte black

SNOWBOARDS

Features + Benefits

Laminate (topsheet/core)

0° x 90° Armtex precured fibreglass is formed under tension and provides excellent, even longitudinal flex, along with consistent torsional stability, translates into snap out of the turn, longer core life and less camber breakdown. Full, board-length and width lamination beyond edge provides increased impact resistance, improves edge response and reduces delamination tendency. Ideal resin-to-glass ratio of precured glass eliminates the inconsistencies of "wet-lay-up" construction. Lighter overall weight, versus ABS topsheet construction. Translation: Light, even-flexing boards, consistent in performance.

Resin

Jeffco Grizzly Epoxy laminating resin, its high absorption rate and ideal flow-viscosity provide maximal resin penetration into laminate structure. Superior bonding, post-cure durability and resilience. Translation: Excellent board integrity and delam-resistance.

Damping

Haberkorn vulcanized rubber - 0.2 mm - dampening in key joint areas is used to reduce edge-chatter, assist in flex modulation and shock absorption. Syncros uses twice as much rubber in our edge, nose and tail lamination. Translation: Provides a smooth ride in varied conditions and terrain, ice and hard-packed conditions.

Cores

Syncros boards are constructed with Jamnkraft cores. Cores are vertically laminated, all-wood in a synergistic mix of a mid-density, compression-resisting Aspen, coupled with a higher-density, impact-resisting Birch toward the edges. Together, they result in a lively, responsive core with excellent camber "memory" and snappy flex characteristics. Cores are precision shaped with an integral "suspension", the core ends reach far into the nose and tail - past the effective edge/kick transitions - absorbing shock forces at the tip/tail extremes - dispersing them evenly



throughout the board. Translation: Lively, responsive turning, smoother entry/exit in turns and increased stability on big landings.

Edges/Base

Steel edges, 48 on the Rockwell Hardness scale. Durasurf 2001 Base Material is used on all board models, due to its superior durability in relation to regular P-tex. Higher impact/rock factor tolerance, no "running tears" and - with the addition of sintering - highest wax absorption possible. Translation: Cleaner edge-to-edge transitions, faster base-running; more speed in powder, higher airs.

Sidewalls/Nose/Tail

Acrylonitrilebutadienestyrene (better known as ABS), is a tri-polymer compound that is used in our side-wall, nose and tail-piece construction. ABS's flex, bonding properties, strength in laminate, and durability under stress/impact forces makes it the material of choice for board construction. Translation: Superior core/laminate protection, flexibility for tip/tail riding.

Inserts/Hole Pattern

Inox steel inserts @ 6mm x 1mm with base, eliminate the problems associated with zinc-plated, baseless inserts: no base ruptures, bumps or bulges, clean, no-rust threads - positive interface with bindings. Baseless-compatible. Stance: 44.5 - 69.0cm / 17.5 - 27.1"

4X4 Hole Pattern

@ 10 x 10 pack on Syncros small/mid-size models allows for maximum stance-range with 4x4 slotted and multi-hole disk bindings. Centred for freestyle-oriented riding and maximum energy transfer to edge and the camber area. Baseless-compatible. Stance: 44.5 - 69.0cm / 17.5 - 27.1"

10x 12

pack pattern on 163.5 Syncros is setback 2.5cm to accommodate faster, more aggressive riding and is equipped with the extra pair of Inox inserts for powder/freemountain riding. This stance allows for more power off-the-tail. Baseless-compatible. Stance: 43.2 - 70.3cm / 17.0 - 27.7"

Graphics/Finish

Graphics are all screened with the highest quality, two-part component epoxy screen paints. Precured fibreglass topsheets are screened directly - eliminating the need for an extra layer in production (as with ABS). Result: high quality graphic layer that is highly resistant to dings, scratches and abrasion from coarse snow, etc. Translation: Tough, looks cool.

BAD GOODS

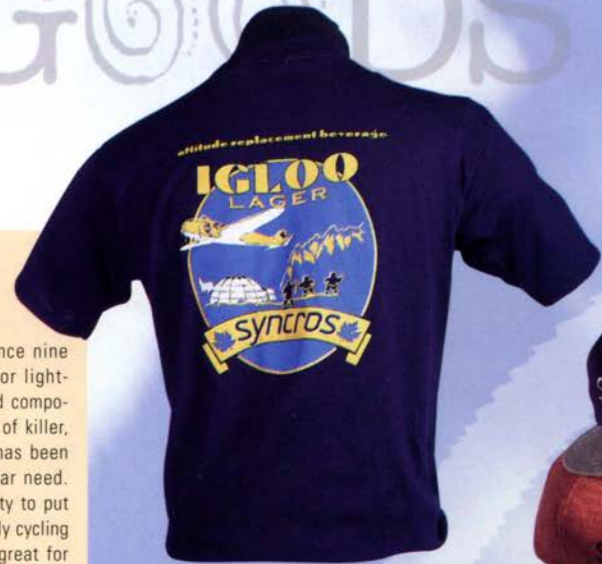
So whether you're ripping down your fave single track or just lounging, the Fashion Police won't hassle you if you're wearing Bad Goods rags 'cause we've put The Funk into function. Bike clothes will never be the same again!

What you see here is just a taste of what Bad Goods is all about, see your dealer for a full Bad Goods catalogue.

BAD GOODS™ BY SYNCROS™ ... WHAT THE?

Syncros came into existence nine years ago to fill a need for light-weight, bombproof off road components. Our Bad Goods line of killer, on-and-off the bike wear has been developed to meet a similar need. We recognized the necessity to put The Funk into functional daily cycling apparel. The lycra look is great for racing, but every day isn't race day. Everyday gear needs to look so hip - it hurts and be able to survive the inevitable biffs and bails that are part of every ride. We've designed a collection of laid back, casual garments that work, whether in the saddle or jockeying for style points at your local mosh pit.

We put the same unremitting attention to detail into our clothing as we do with our components that you know and rely on. Only the most cutting edge US and Canadian made technical fabrics like waterproof, breathable polyesters, wickable cottons and windproofing laminates have been selected to optimize the performance features of our clothing. Everything we make is dialed, styled and sewn in Vancouver to bring you totally North American garments. Because we're our own best customers, we've designed Bad Goods to meet our own demands for high quality, functional, casual clothing. If we're satisfied we know you will be too.



WARRANTY

At Syncros we use only the highest quality American made aerospace grade materials in all of our components. Each component is hand crafted with pride and rigorously inspected to insure quality.

We manufacture three distinct lines of components to satisfy the demands of discerning riders. Pro Series™ and Altura™ components are designed for top level professional racing only and as such we recommend their replacement annually. Due to their ultra-light weight, they are warranted, for a period of two years, against defects in materials and workmanship only. They are NOT warranted against failures due to overload and fatigue wear. Note: ball bearings are not covered by this warranty.

Hardcore™ components, as their name implies, are robustly built and designed for aggressive riding. Because they are built with more metal in critical areas, they are warranted for five years against defects in materials and workmanship and for two years against overload and fatigue wear. Note: ball bearings are not covered by this warranty.

Since we have no control over our products' final use we cannot warrant their suitability for specific riders or uses.

Life expectancy of each component can vary widely with frequency and type of use, maintenance, crashes, rider size and riding style. Therefore we strongly recommend:

1. Read and follow product installation instructions faithfully. Do not ever modify your components. Any modification will void all warranties.
2. Clean, lubricate and meticulously inspect your components regularly. Replace the component immediately if any bumps, dents, bends, cracks or other anomalies appear.
3. Bicycle components can fail catastrophically due to overloading, impact and/or fatigue. Although it may not be initially

evident, overload and/or impact from a crash may induce undetectable microscopic cracks in the metal that will dramatically reduce the serviceable life of the part and may lead to catastrophic fatigue failure. If your bicycle is in a crash we recommend product replacement.

4. As with any metal structure, wear will be proportional to intensity and duration of use. When in doubt, throw it out.

We wish you lots of trouble-free riding and ask that you respect the IMBA Off-Road Code, ride safely and have fun.

To improve our products specifications may change at any time

SAFETY FIRST !

how about that.

DEMAND OUR BOMBPROOF COMPONENTS BY NAME

Australia
Cadence Sports Ent.,
44 Canoon Rd., Turramurra NSW 2074
Tel: (61) 2-44-7204, Fax: (61) 2-449-7605

Austria
Trendsport, A-6911 Lochau
Postfach 66
Tel: (43) 5574-471-47 Fax: (43) 5574-471-473

Benelux
Vertex Cycle Systems, Flemingstraat 100a
2041 VL Zandvoort
Tel: (31) 2507-1-81-84,
Fax: (31) 2507-1-86-06

Canada
Outdoor Gear Canada, 2708 rue Diab, Ville St-Laurent, Québec H4S 1E8
Tel: (514) 332-1320, Fax: (514) 335-1691

Czech Republic
Ultrasport, bri Capku 1,
568 02 Svitavy
Tel: (42) 461-2350 Fax: (42) 461-2350

Denmark
Bike Toyz, Molagade
18000 Arhus C
Tel: (45) 8612-5931 Fax: (45) 8612-5932

Germany
Bike Action GmbH, Groß-Umstädter Str. 28,
64807, Dieburg
Tel: (49) 6071-92-34-0, Fax: (49) 6071-8-16-05

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24020 Gorle (bg)
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Shinjuku-ku, Tokyo 169
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New Zealand
Sheppard Industries Ltd., P.O. Box 62 067
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Tel: (64) 9-276-2652 Fax: (64) 9-276-2756

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Tel: (47) 94-34-23-27 Fax: (47) 32-76-71-50

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Switzerland
Agentur Felix AG, Sonnenhalde 7,
Bettwiesen TG
Tel: (41) 73-22-66-16, Fax: (41) 73-22-66-29

United Kingdom
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never



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ending

Printed in Canada on recycled paper.

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for Sheldon Studios

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Wagner Teldon

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