



rid XCR Composite railied with riskilly and steel soon while offering the

d damping qualities of aluminu ome people just gotta have the best. Nothing else will guite do. They fly Lear ets. They own original Picassos. They drive Ferraris, and, chances are, if they're into mountain biking, they ride a Mantis XCR composite. The membership fee for this elite all-terrain club is a breathtaking \$1650. What you get for your investment is the dreamlike nds you've been praying for-an off-road

## TEST-DRIVE DREAMS Currently the Mantis XCR Composite is of-

red a couple of different ways: as a separate frame-and-fork set for . . . hang on 58 MOUNTAIN BIKE ACTION / JULY 1986

hand-built bike for right around \$1650. You can spend more if you wish. It's easy Our test bike was meticulously prepped for us by the largest Mantis dealership in the U.S., Sea Schwinn, located in Costa Mesa, California. In the sales department, it can't hurt that Sea Schwinn is the premier local dealership in Newport Beach, California, a capitalist's dream city with a rumored median income

Sea Schwinn sells their two-wheeled, human-

powered counterparts. Please, whatever you

or, like our tester, a complete ready-to-race of \$70,000. Locally, Newport Imports sells Ferraris, Lagondas and Jaguars, Across town,

do, darling, don't spill your espresso or crum ble your croissant while Gucci-loating your way through Sea Schwinn's thick-pile carneted showmorn of bloude exotics. And show some control, huh? Don't drool on the Man-

## tises. Besides, you might get some on your FORMULA 1 FRAME AND FORK

The man helpind the Mantis is Richard Cunningham. For the last five years or so, Cunnincham has been quietly handcrafting bikes out of his efficient wet modest Anaheim, California, shop, in the world of serious backcountru carlists. his bikes are leavendary for their innovative design, plush high performance and dreamy finishes. For years the Mantis man preferred to build bikes of super-light steel, complete with hand-brased, perfectly radiused joints finished in immaculate Imon noluurethane paint. Super-light steel bikes could easily be built as Cunningham so skillfully proved with his early Sherpa and XCR models. But not without compromising the bikes' strength In search of super-light weight, more than a few early prototypes, as they say, lightweighted out. However, these early expirations occurred after years of accumulated abuse by dirt riding demented who lie awake at night dreaming up ways in which to snap \$1000 handcrafted chassis like brittle twigs. Cunningham's early test pilots read like a veritable list of who's who in SoCal off-road racing: Kye Sharp, Joe Sloup, Todd DeAngells and former National Supercross motorcycle champ Mise Too Tall" Bell, to name just a few. The stress these guys out a bise through in a season of riding, racing and training, most recreational

### riders wouldn't be able to put a bike through in a lifetime. These people are truly sick BEST OF BOTH WORLDS

In the midst of all this brutal R&D friding and destroying) Curningham had a vision: a hybrid off-road frameset combing featherweight, heat-treated aluminum with the still ness of steel staus and forks. The result is today's Mantis XCR Composite. Up front, a triangle of oversized, heat-treated aluminum; in the rear, stays of 4130 chromoly. This lethal combination allows for ridiculously low vehicle weights. It is not unusual for a full-sized ready-to-race XCR to weigh in at 27 pounds



ng Internally at the bot t. the XCR Composite of

Serio them of their two empty bottles and alloy rages, chemmy Silca pump and dean carry no stran, and unu've dieted away set another there are a lot of embarrassed, skinny-tred

road bikes out there. These two previously incompatible metals obviously can't be welded, so they are, believe t or not, boilted together. The chromed chromoly seat stays fasten cleanly to the massive aluminum top tube, while the beefy chain stays roin almost invisibly via an inner hottom bracket boiting system. Combined with the sanitary 4130 chromoly Unicrown forks, this unique chassis has a ride all its own. It displays the nligh ride and superior road damping qualities of aluminum, with the no-whip stiffness and response of a short steel near end. The

Marits files! FERRARI FIT Cunningham stass his blives so you can ride an inch-smaller frame than you normally would without feeling cramped. Combine the longish top tubes with one of the Mantis' three custom chromoly stems, and the XCR offers plenty of room to move about. You'll need it. The key to making the Mantis fly is weight distribution. That's why Cunningham contends that bless with 68/73-degree head/sext angles. and bises with 71/71-degree angles both work. It's not so important what the angles are, but rather where the weight is. The XCR emerges as an incredibly balanced base. Weight shifts to counter changes in terrain require only subtle movements. Our 21-inch tester, with its twin 71-degree head and reat angles and super-short 17-1/4-inch chain stays, climbed Her a bishom sheep, seldcan losing its sure footing in steen terrain.

Whether we were hammering out of the saddie or sitting tight, the Composite constantly surprised us. Previously unridable sections that had plaqued us over the years became ridable. Even through slippery shale or rhythm-breaking chatter ruts, the Mantis sticks to the ground. Possessing the power to climb is one thing. Putting that power to the ground and keeping it there has always been the trick. The Mantis is a hillclimbing magiciar

COMPETITION COMPONENTRY Un until now we haven't really gone into a the componentry supplied on our XCR. And we won't. What you choose to bolt on your frame-and-fork set should be a very personal | thing. Our tester came equipped with pre-

# XCR

dominantly SunTour XC running over. Armys RM-20 rims. Richey Quad tres. Shimano's excollent HR MN.72 spaled hubs and Sportalized triple touring crankset. Again, as we said earlier, you could spend more. It's easy,

Some other nice touches that bear men tioning are Mantis' super-sano sealed bottom bracket. It's simply two 35mm oversized seal ed bearings retained on one side (chain ring) by a shoulder in the BB shell and on the other by a single circlip. Removing and replacing this bulletproof bearing setup is a snap

Another clean setup is the riveted and threaded cable guides. No messy heli-arc blobs here, just sanitary threaded-in cable guides riveted on under-the-bottom-bracket routing. Very clean. And we can't forget the pump peg on the seat stay bridge or the welcome nulon carrying strap. The closer you look, the better the XCR looks. Details, that's what you've paying for. Details that make you and your riding look better than they've even looked before. That leaves only one little detail ... money. Speed costs. How fast do



ok closely. No closer. The blissful but ely marriage of 6061 7-6 alum noly consumetes a oly inside the sanitary sealed-l om bracket via internal b cetion quality is dreamlike.



## SPECIFICATIONS:

XXII. XXII Composits AN JACTI ASIC Martis Sicycle Co., 350 E.

USGESTED RETAIL PRICE \$850 Name and fork set.

CERTIFY 275 the when water bordes and capes. Silver All cimensions any for birar tested. Tube level

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