THE THE MAN

The latest range of McMahon frames and MRC components will be at the Cyclex show in a few weeks time. Steve McMahon will be there too, and he gave us a preview of his latest and trickest kit. Report & Pics by Steve Rowley



ome 70 miles north-west of Los Angeles on Highway 101 lies Carpinteria, the home of McMahon Racing Cycles. From the idyllically situated

clifftop premises overlooking the Pacific Ocean, Steve McMahon told me of his passion for titanium bikes. Listening to Steve you get the impression he has a vision - the complete titanium bike, from rims to rear mech. Few others have used titanium with such success and in such a range of components. However, Steve is too wise to use the metal for applications that are not suited to its characteristics.

With frame-building experience spanning eight years, Steve McMahon has worked with steel, aluminium, carbon fibre, and titanium. He now draws on all of these materials to a greater or lesser degree to produce his frames and components.

In the early days he custom-built Tange Prestige steel-framed bikes for

local riders, often building frames for strange requests. Like the time he built a16 inch frame with a 29 inch top tube for a man weighing 380 lbs. The mind boggles at what the guy looked like!

FIRED UP

Steve's first departure from steel as a frame material was with carbon fibre. His first non-steel frame used carbon fibre tubes bonded to steel lugs. It was obviously not up to

the McMahon standards as Steve

bike show and saw lots of the stuff

steel lugs and fitted the frame with a

fillet-brazed steel fork. The design

McMahon's entry into the world of titanium frame building had begun.

Changing to TIG-welding methods

titanium frames in earnest. Dealers

MAINTAIN QUALITY

generated lots of interest. Steve

quality of the tubing is the basis for a good frame, with titanium the quality of the construction is definitely the priority. The difficulty in welding titanium and the result of doing it badly is what distinguishes titanium frames. For this reason we selected Sandvik to fabricate our frames to our design.'

Sandvik Special Metals is one of the largest US titanium frame-building companies, based in Kennewick, state of Washington, and it has awesome capabilities. Not only does it make the cycle frame tubing, it has years of experience and engineering background that help produce some of the best built and well-engineered frames available. Nonetheless, all the Sandvik-built frames are further checked from alignment on MRC's impressive-looking granite alignment table before being shipped around the world.

THE BIKE & BITS



MRC produce a range of titanium frames and component to satisfy the most ardent of titanium freaks and racers. The platform for the total package is the 325R frame, made of 3AI/2.5V titanium alloy tubing (3% Aluminium, 2.5% Vanadium). There are several design features which distinguish this 3.85lb frame from other titanium frames on the market. Even when built up with lots of titanium components, this bike can weigh nearly 22lbs, so it's sturdily-built by the quickly dropped the idea in favour of titanium. Steve got fired up over titanium standards of many design-project titanium frames - and not cheap either about three years ago when he visited a at around £3,000 in the UK. The geometry uses a long and roomy top about. Again he bonded the tubes to tube combined with comfortable angles which allow riders to perform in a wide range of conditions. New for 1992 is an ovalised 1.5" down tube at the junction with the head tube. A wide bottom bracket shell allows good rear tyre clearance and increased support for the MRC titanium (what else?) bottom bracket spindle. This retro-fit item is now produced with threaded cups, English threads. Every frame comes with (using Tungsten and Inert Gas, the most seatstay-mounted U-brake mounts. common method of joining mountain Steve does not like cantilevers because, bike frame tubes), Steve began building 'They don't work as well, they have diminishing mechanical advantage'. around California snapped them up and Instead, he recommends his own so did serious mountain bikers. It was design MRC 'Power Link' brake (which obvious that in order to meet worldwide mounts onto the U-brake studs) demand and maintain quality something which, he claims, progressively had to be done. Says Steve, 'While the



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Cexerts more grip as it is operated. As the brake lever is pulled the roller-cam-style straight brake callipers are forced apart, rather than pulled together like cantilever arms. For this reason, the lever action of cantilevers become weaker as the pull increases. However, past experience succests the Power Link brakes are more prone to dipoping than the cantilevers popular in Britain. The bushes on the Power Link brakes have grooves to hold grease, and Power Plate straps - like brake boosters - can be added to cut down on flex.

It is attantion to machanical design that has given Steva an edge in the world of Itaniam MTB's. Take the MPIC semposit for sample. While I was that an Steve was notekepring it to make it both Ighers and more takes it both Ighers and more to size, 828 emm of 22 Jmm (no shims), and weigh around 165g for a 330mm post. He never stops refining and improving MFIC products.

As well as the new seatpost, MPC has a new mountain bike fork for 1992. Weighing 1.51 lbs, the fork has a ditanium steerer with carbon fibre reinforcement, an aluminum clemp-type crown, and Ittanium blacks which are again reinforced with carbon fibre.

I saw a prototype titanium unicrown fork which

weighed an incredibly light one pound - but it's unlikely that this model will ever see the light of day due to the high cost of production. Nonetheless it is an indication of Steve's innovative approach to component design.

There's also a new MPC suspension fork which, utilising titanium construction with elastomer technology from Uniroyal, weights in at around two pounds – very light. No popo stilsk this one.

Steve is working on a transm SPD-compatible pedal which also promises to other considerable weight saving over the original, and in the States these now sell well along with the XC Pm saindes.

Other trick bits include the lightest stem on the market (190g with Ti expender bolt), handlebars, and the Ti springs in the Power Link brakes.

AWAIIAN INTERVENTION

Prior to last year's Interbike Show at Anaheim, MRC was



approached by an artist in Hassii with an offer to apply trick finishes to the hames. Steve agreed, and the finish, an attractive anodised purple marbling, was resplandent on his hikes at the Arabien shoe.

The normal finish for MPC frames is a handsome beadbiasted matt finish, though Steve sometimes produces others to order including an incomptiousus black. The black disguises the titanium and makes the bike lass likely to be share.

As the day grew long i realised it was time to say goodbye to Steve NoNkhon and centrus or my way. Earlier, watching from a window that overkoles the Bacht, I had winessed palicane diving into the cean. Dopin's had danced among the waves. Now the saw wis softing, and a more trangal view would be difficult to find. Berlind we sky the hits and rates above Carpitricia. A hybris betting to ream up UK importer -John Mathews Cadence Distribution 91 Baldwin Road Kidderminater Worca Worca

US -McMahon Racing Cycles PO Box 579 Carpinteris, CA 93013 (ND) 694 7398

Steve McMahon

will be ettending Cyclex 992 at Olympin, London and you will find him at the Nicol Trading stand or the Cadence stand. A blice test of a built-up McMahon appeared in the Midsummer 1991 Issue of Mountain Eliker.