PARTNERS IN GRIME



The gnarly grin says it all. Ken's tasteful tie 'n' shirt image belies à radical brain.

When MBI reader engineer Ken Simspon bought a lightweight frame, he had no inkling of where it would all end...

LIGHT FANTASTIC



who believes bikes should go on a diet. This is applied no more fervently than to his own steed which currently weighs in at a svelt 17.75lb. You reckon that's light. Well Ken says with slicks he can get the weight down to around the 15.5lb mark.

48-year-old Ken began his lightweight fetish when he rediscovered cycling after a spell on moto-cross trials bikes Having already built himself a trials bike he figured building a push bike would be a walk in the park. But rather than go into frame building, he concerned himself with lightweight components and

en Simpson is a man | lightweight mountain bike was an Emmelle that he slipped a pair of slicks onto and hung on the balance. It went to 19lb. To a man like Ken that set it positively in the heavyweight division and he set about his goal to build the lightest possible MTB.

About six months ago I went to the States and bought this Titan titanium frame. At 2lb 15oz for an 18.5in frame it is light, and I couldn't wait to get it home and into the workshop, he recalls.

Bike shops Shrewsbury area will no doubt remember Ken, the man who weighed a piece first and, if he reckoned he could make it himself lighter, then left for his groupsets. The first Simpson | machine shop without handing



The titanium seatpin is home-crafted. A jubilee clip replaces the seat clamp bolt how long it will last we don't know.



A Mavic mech perforated and adjusted for 11-23T 700-CX Shimano hybrid micro assrina.



Ken's 17.75/b Titan featherweight champ - is it in a class of its own? He says he's not finished yet.

over a bean. There he made the trick titanium front hub, and built a conversion bracket to hold the 16, 28, 38T chainring configuration. The rings themselves are painstakingly Geoff Visible and to some

drilled out to save

Report & Pics: Geoff Waugh

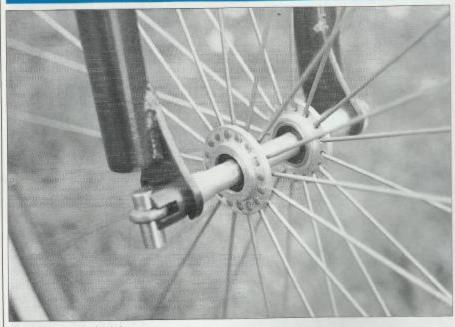
weight, as are the cranks. The chainset revolves on a Titan bottom bracket. Even the eight-speed sprocket cluster has been drilled out a la XTR cogs.

One of the downers for Ken were the stainless steel spokes on his Emmelle which, he considered, added too much weight to the overall package. His latest creation has titanium spokes no less. These are laced radially into the front rim and on the left side at the -

The driller miller has gone to work on the chainset and cranks. The chain comes like that, see Tricknology.



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Ken's own marque litanium hubs.

rear. The sprocket side has a conventional three-cross weave.

Two sets of 36 titanium spokes save 204g over stainless and with alloy nipples that is shaved to 8oz, he says.

Components that might not warrant a second glance on some MTBs saw themselves fitted to the Titan, purely for their low-fat content. For example, the brake levers are Sturmey Archer plastic units and the grips are cork. These are slipped on to a carbon fibre bar, the brakes and blocks. A

one of the lightest gearchanging systems around. At the rear the Grip Shifts work a Mavic road mech that has been doctored to cover the 11-23 tooth spread

His seat post is hand made from titanium and incorporates a lightweight cradle fixing.

But it's not all exotica on the Simpson bike. Household names such as Zoom appear on the stem. Ritchey provides

along with Grip Shifts which is Shimano XT rear hub is there albeit with a titanium spindle. Tyres are courtesy of Ritchey and are the light 1.7in Z-Maxs.
'I haven't finished with the

bike yet. It will get lighter and at the moment I am working on the stem and forks. There is a weight saving to be made there', declares Ken.

After witnessing what Ken Simpson can produce with a machine shop and a bit of titanium, we can only



TECHNICAL

Frame: Titan titanium 18.5in

Fork: Hanium

Groupset: Shifters Grip Shift Cranks Hand made **Bottom Bracket Tean** Pedals Specials, titanium

Chain Regina hollow pin Freewheel Shimano cassette 8-speed 11-23T drilled out Chain rings Hand made Derailleurs Shimano Micro front & Mavic rear

Brakes Ritchey Logic

Components Headset Titan Stem Zoom Bars Carbon fibre Grips Cork Saddle Flite Titanium Seat Post Hand made itanium

Tyres Ritchey Z-Max 1.7 front and rear

Rims Matrix Titan Hubs Hand-made titanium 32 hole front & Shimano XT rear Spokes 14 gauge thanium

Extras: Simplen titanium bolt

Weight: 17.75lb

GONNA MAKE OU A STAR

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