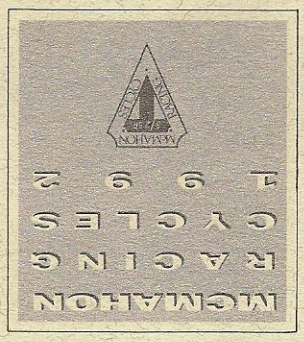



## MCMAHON RACING CYCLES PRODUCT SPECIFICATION SHEET

| FRAMES | Mountain | | | | Road | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Size | 16 | 17.5 | 19 | 20.5 | 52 | 54 | 56 | 58 | 60 |
| Top tube | 22.37 | 22.75 | 23 | 23.25 | 53 | 55 | 56.5 | 57.5 | 58.5 |
| Head Angle | 70.5 | 70.5 | 70.5 | 70.5 | 73 | 73 | 73 | 73.5 | 74 |
| Seat angle | 73 | 73 | 73 | 73 | 74 | 74 | 73.5 | 73 | 72.5 |
| Chain stay | 16.75 | 16.75 | 16.75 | 16.75 | 16 | 16 | 16 | 16 | 16 |
| BB height | 11.5 | 11.5 | 11.5 | 11.5 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| Spacing | 135 | 135 | 135 | 135 | 130 | 130 | 130 | 130 | 130 |

| STEMS | | FORKS | | | |
|---|---|---|---|---|---|
| Mountain | Road | Type | Mountain | Suspension | Road |
| 110x20 | 10 | Rake | 1.5 | 1.5 | 1.5 |
| 120x18 | 11 | Length | 15.37 | 15.75 | 375 |
| 125x10 | 12 | Studs | U or Cant | U or Cant | |
| 130x12 | 13 | Crown race | 26.4 | 26.4 | 26.4 |
| 140x6 | 14 | | | | |
| 150x3 | 15 | | | | |

| BB SPINDLES | | | | T-SHIRTS | WATER BOTTLES |
|---|---|---|---|---|---|
| Diameter | Lengths | | | Grey | |
| 5/8" | | 125mm | 131mm | White | Large, Clear |
| 17mm | 113mm | 125mm | 131mm | Mint | |
| **BB GUN** | | | | **SHORTS** | |
| Lengths/ English threading | 113mm | 125mm | 131mm | Eight-panel Aussie | M,L,XL |

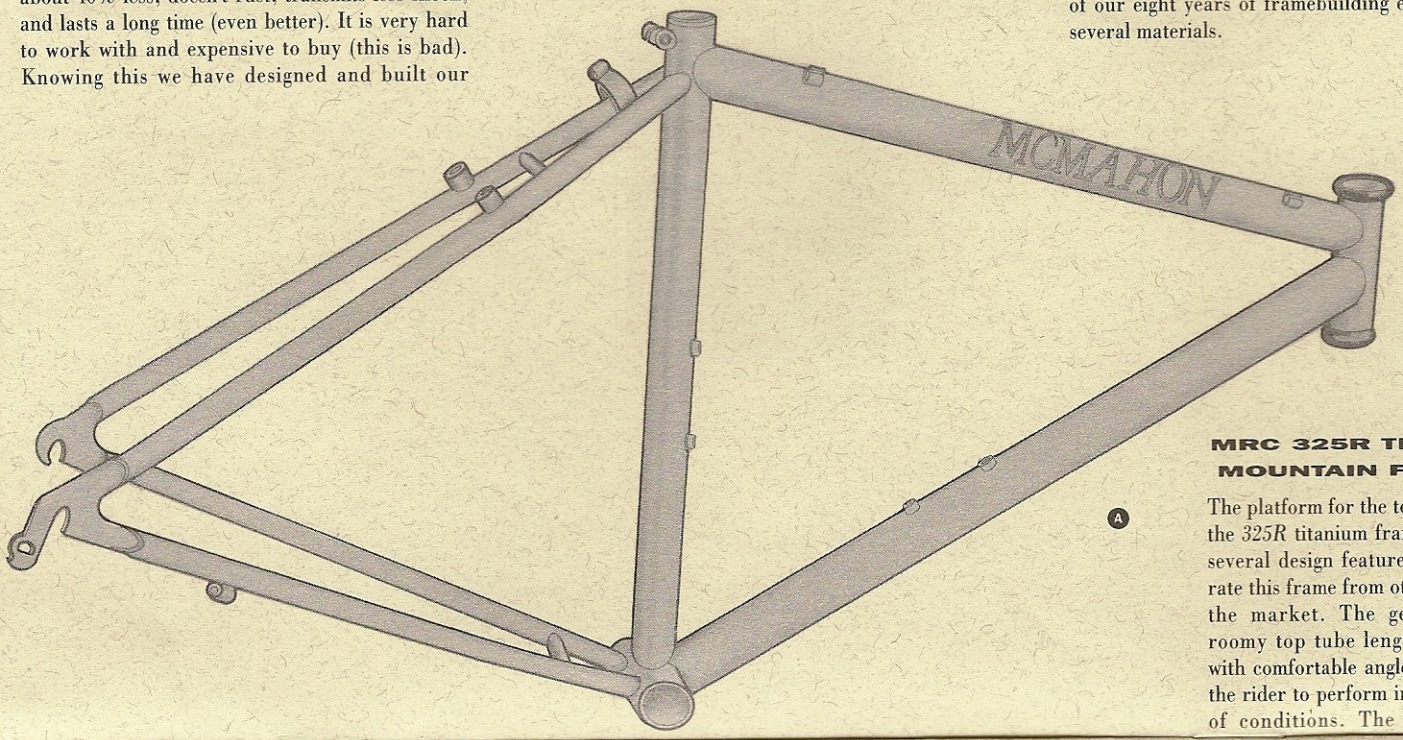
**P.O. BOX 579**
**CARPINTERIA, CA 93014**
**(805) 684-7398**
**FAX (805) 684-8073**

## FRAMES

There is quite a bit of mis-information about titanium and its properties. When utilized correctly it surpasses most other materials in overall performance; it is also expensive on every level.

Titanium is very strong. It ranks with the best quality steels in strength and blows them away with its high fatigue strength (this is good). It weighs about 40% less, doesn't rust, transmits less shock, and lasts a long time (even better). It is very hard to work with and expensive to buy (this is bad). Knowing this we have designed and built our frames to take these considerations into account. U.S.-made titanium tubing is superior to any tubing in the world. Only three titanium mills in the US make 3/2.5 titanium tubing. We are biased, but we feel strongly that Sandvik tubing is the best of the best. Their radially textured tubing is used throughout our product line. While the quality of the tubing is the basis for a good frame the quality of the construction is definitely the priority. The difficulty in welding titanium and the resulting effect of doing it badly make the fabrication of the frame what sets titanium frames apart. For this reason we have selected Sandvik to fabricate our frames to our design. Sandvik has awesome capabilities. Not only do they make the tubing, they have years of experience and engineering background that add up to the best built and engineered frame available.

Both the road and mountain frames are the result of our eight years of framebuilding experience in several materials.

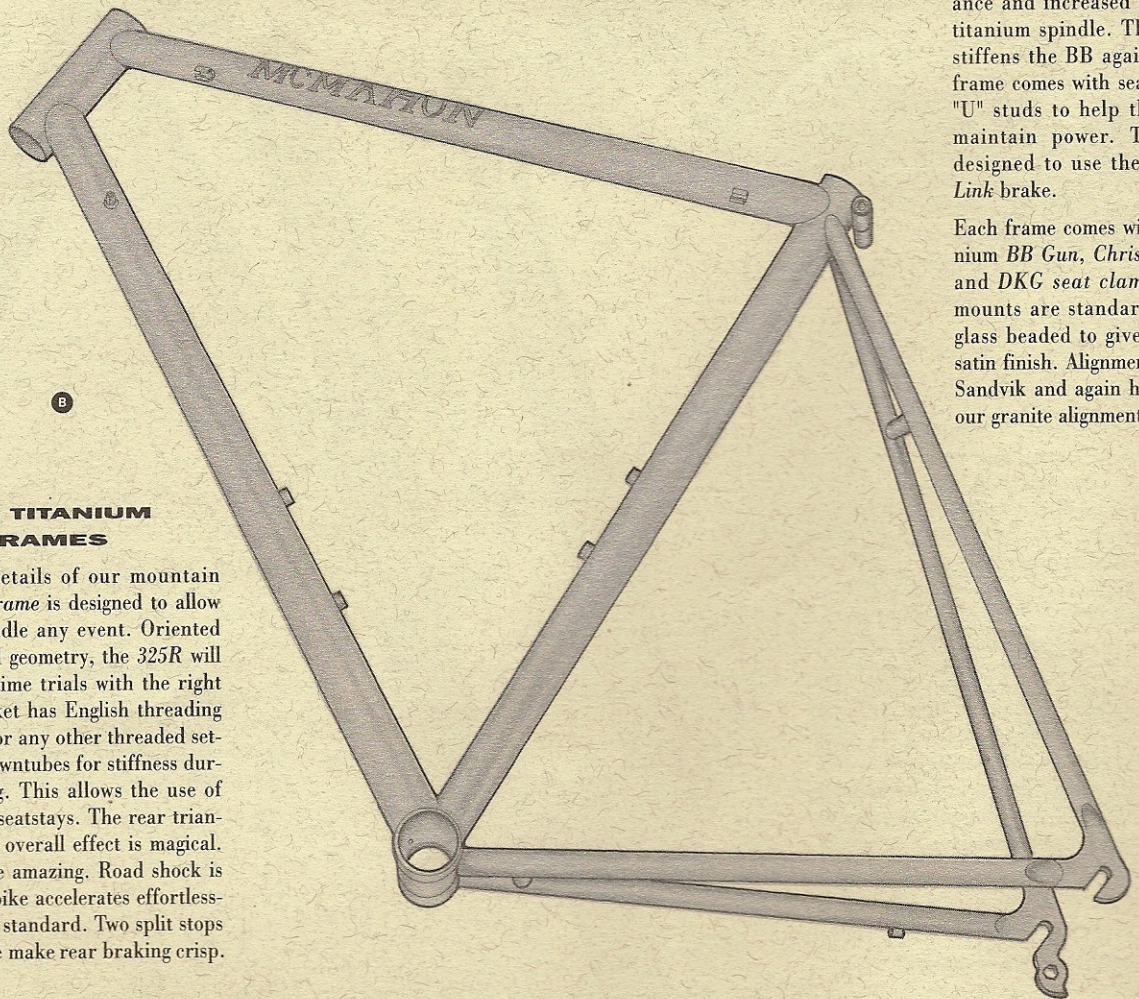



A

### MRC 325R TITANIUM MOUNTAIN FRAMES

The platform for the total package is the *325R* titanium frame. There are several design features which separate this frame from other frames on the market. The geometry uses roomy top tube lengths combined with comfortable angles which allow the rider to perform in a wide range of conditions. The wide bottom bracket shell allows great tire clearance and increased support of the titanium spindle. This design also stiffens the BB against flex. Each frame comes with seatstay mounted "U" studs to help the rear brake maintain power. This set-up is designed to use the *MRC Power-Link* brake.

Each frame comes with a MRC titanium *BB Gun*, *Chris King headset*, and *DKG seat clamp*. Two bottle mounts are standard. Frames are glass beaded to give a long lasting satin finish. Alignment is checked at Sandvik and again here at MRC on our granite alignment table.



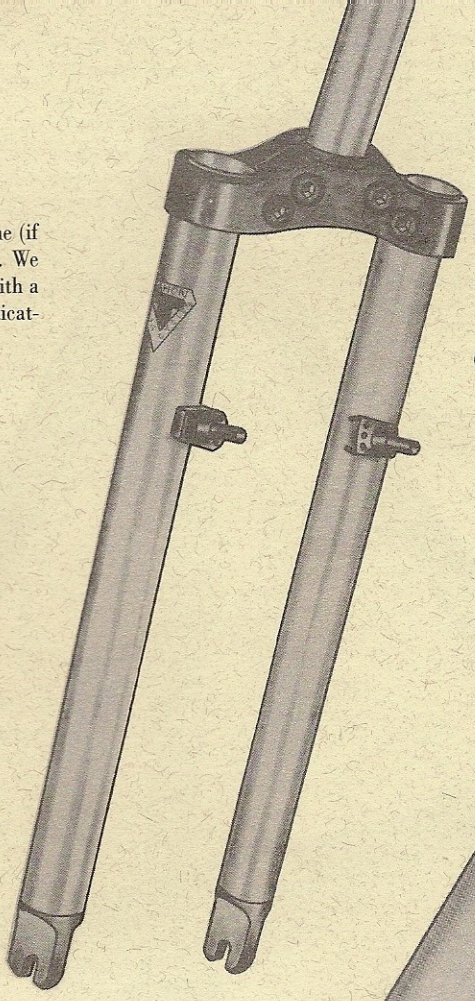

B

### MRC 325R TITANIUM ROAD FRAMES

Utilizing many of the details of our mountain frames the *325R Road Frame* is designed to allow the rider a frame to handle any event. Oriented toward a traditional road geometry, the *325R* will excel in criteriums and time trials with the right set-up. The bottom bracket has English threading for use with our *BB Gun* or any other threaded set-up. All frames use 1.5" downtubes for stiffness during sprinting or climbing. This allows the use of slightly smaller diameter seatstays. The rear triangle looks cleaner and the overall effect is magical. Titanium road frames are amazing. Road shock is greatly reduced and the bike accelerates effortlessly. Two bottle mounts are standard. Two split stops located under the top tube make rear braking crisp.

## FORKS

We think that forks are just as important as the frame (if not more) in determining ride feel and performance. We are continually amazed to see a million dollar frame with a dime store fork in it. For this reason we offer a sophisticated set of forks for both mountain and road.

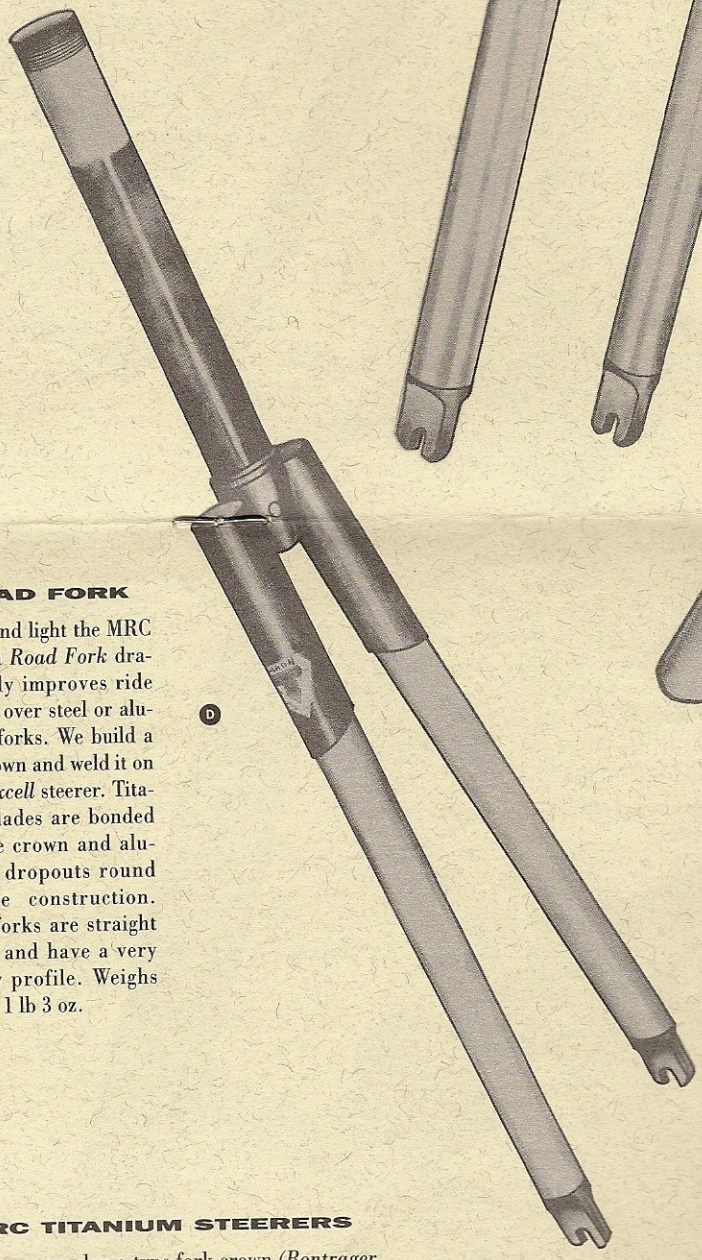


C

### MOUNTAIN FORKS

We have developed a new *Mountain Fork* to replace our bonded titanium fork. The new model features even more titanium and lighter weight. Thanks to a machined aluminum crown we are able to utilize a titanium steerer with a carbon fiber reinforcement. The fork blades are titanium with carbon reinforcement as well. Dropouts and brake studs are machined from aluminum and anodized black. U studs or cantilever are availble. Rake is 1.5". Weight is about 1.5 lbs.

Our new *Suspension Fork* utilizes the same crown as our composite fork. This fork weighs about two pounds and does not raise the front of the bike abnormally. We have worked closely with Uniroyal in developing a proprietary urethane spring with variable compression and rebound damping. The fork features our titanium/carbon steerer and titanium stanchions with aluminum sliders. Several springs are included to quickly change the rate for various riders. *(Not Shown)*



D

### ROAD FORK

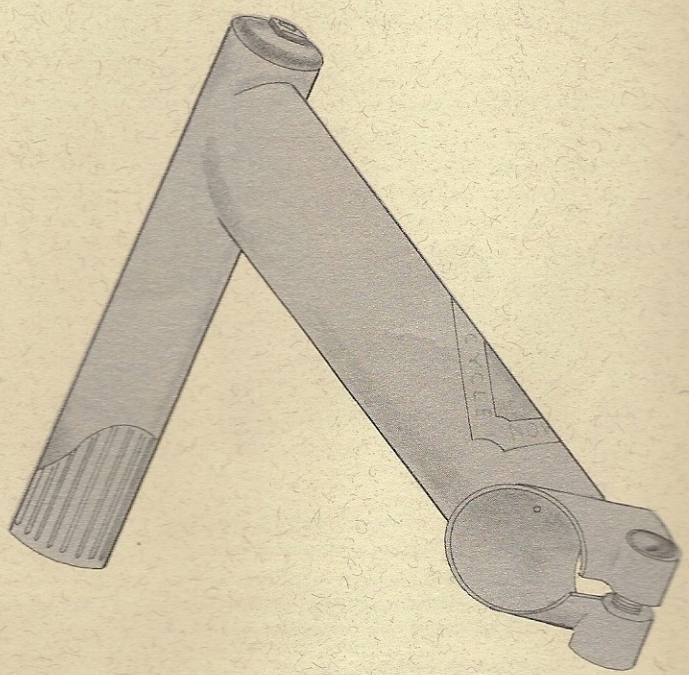
Exotic and light the MRC titanium *Road Fork* dramatically improves ride comfort over steel or aluminum forks. We build a steel crown and weld it on to an *Excell* steerer. Titanium blades are bonded into the crown and aluminum dropouts round out the construction. These forks are straight bladed and have a very narrow profile. Weighs around 1 lb 3 oz.



E

### MRC TITANIUM STEMS

Welded out of thick wall 3/2.5 titanium, the *MRC Stem* is extremely light and shock absorbent. The result is an overall weight of around 200 grams with a steel bolt. *MRC Mountain Stems* come in a variety of lengths and rises. *MRC Road Stems* all have traditional angles and come in one centimeter increments. Please see the spec sheet for sizes. Stems come with all hardware. The stem should be one of the priorities in reducing the weight of your bike and increasing ride comfort.



F

### MRC TITANIUM STEERERS

If you have any clamp-type fork crown *(Bontrager, IRD, Syncros, Rock Shok,* or *Manitou)* and you want to really lighten up the fork, try one of these. Available for 1" steerers only. We take a 3/2.5 titanium tube and thread it for the the headset and then bond high-modulus carbon fiber into the lower 4 inches of the tube. The carbon stiffens the steerer against flex without adding much weight. Comes with an alloy crown race ring. 7.5", 9" steerers available. *(Not Shown)*

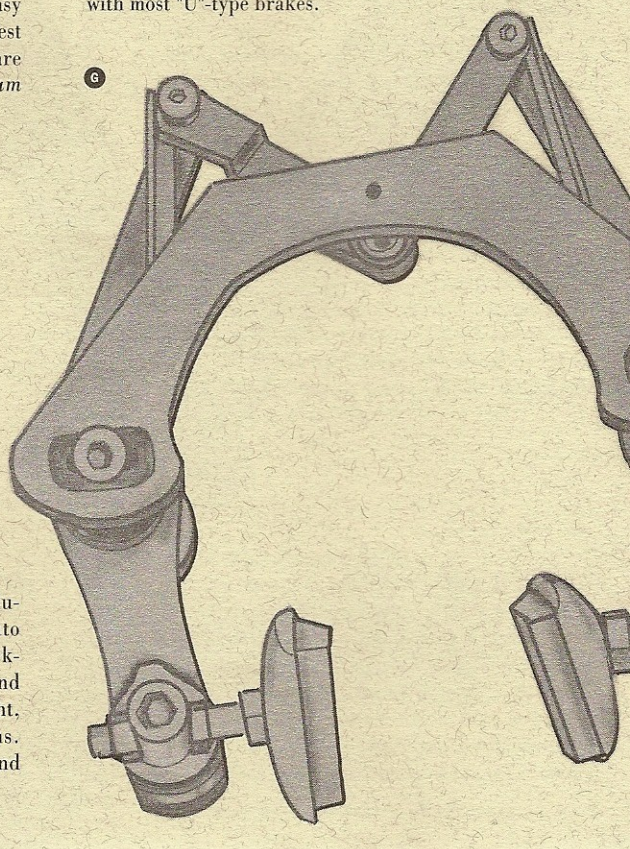
## MRC POWER-LINK BRAKESET

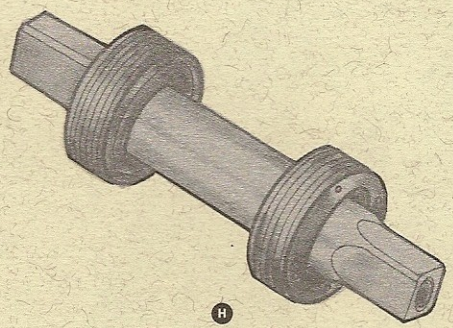
The most powerful and progressive brake on the market. The *Power-Link* features light weight and incredible performance. Machined from 6061 Aluminum, with brass bushings, and titanium springs. Polished and anodized either black or MRC cobalt blue. The *Power-Link* is easy to set-up and maintain. Quick releasing allows the widest tires between the brake pads. *Kool Stop* brake pads are included. *(Spring design licensed from Cunningham Applied Technology.)*

## MRC POWER-PLATE

Designed to complement the Power-Link. The *Power Plate* is machined out of aluminum and anodized to match the brakes. The plate prevents twisting of the frame studs under braking. A must for the *Power-Link*, but will work with most "U"-type brakes.

G





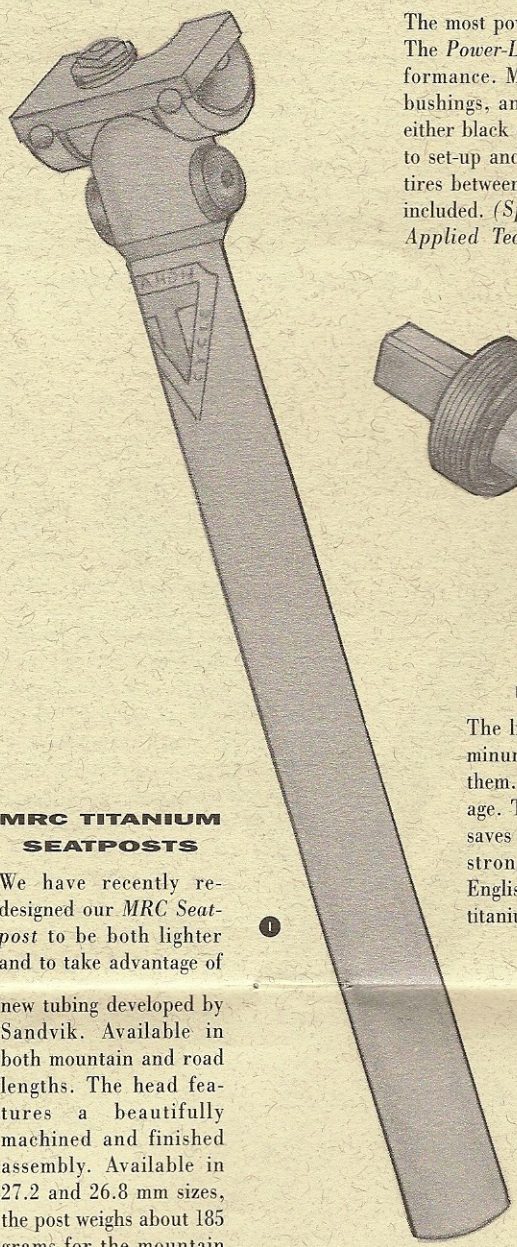
H

## MRC TITANIUM BB GUN

The lighest BB on the market. We machine aluminum alloy cups and press sealed bearings into them. Our titanium spindle rounds out the package. The *BB Gun* weighs roughly 160 grams and saves you about 150 grams over a stock unit. Light, strong, and simple. 113, 125, 131mm lengths. English threading only. Black anodized cups and titanium crank bolts are standard.

## MRC TITANIUM SEATPOSTS

We have recently redesigned our *MRC Seatpost* to be both lighter and to take advantage of new tubing developed by Sandvik. Available in both mountain and road lengths. The head features a beautifully machined and finished assembly. Available in 27.2 and 26.8 mm sizes, the post weighs about 185 grams for the mountain and 155 grams for the road.

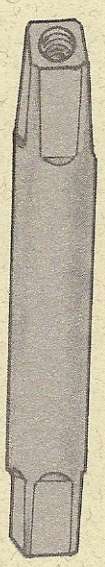


I

## MRC TITANIUM SPINDLES

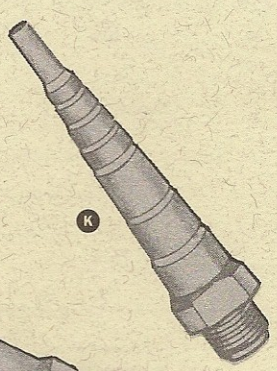
Machined from 6al/4v bar stock. We have spent considerable time and energy making these units as perfect as possible. They are available in both 5/8" and 17mm diameters to fit most frames. These spindles have several features that other spindles don't have. The tapers are very accurate at 2 degrees. The diameters are ground to a .0001" tolerance to fit the bearing perfectly. The flats have large radius to dissipate stress at the crank. Spindles are anodized with a *Teflon* treatment which allows the use of titanium crank bolts if wanted. Lengths: 113, 125, and 131 mm.

J



## MRC ACCESSORIES

We have a wide variety of T-Shirts, Shorts, Bolts, and Water Bottles available.

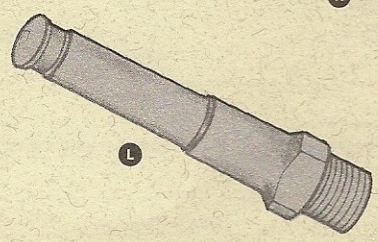


K

## MRC TITANIUM SPD AXLES

Lighten up your *Shimano* pedals. Saves 50 grams over the stock units. Machined from 6/4 bar. Installation is fairly simple if you do one at a time. Just remember - 12 ball bearings per side.

K



L

## MRC TITANIUM XC-PRO AXLES

Will fit all the *Suntour* pedals but they fit the *Grease Guard* pedals the best. Machined from 6/4 titanium, they significantly reduce the weight of this great pedal. Our axles come with our own stainless bolt to replace the weird stock bolt. Very simple to install. Saves about 60 grams.

L

## MRC BULGE BARS

5-degree bend with a narrow center section to get your levers, grips, and shifters on with ease. Made from 3/2.5 titanium tubing. 22.5" inch width. 165 grams.

M

