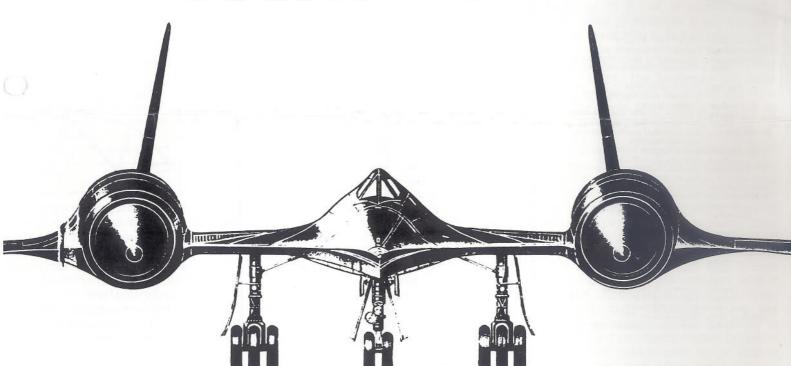
STRATEGIC METAL



the Pigyole group

NERIN TITANIUM



MOUNTAIN

BIKES



Frame Sizes: Frame Tubing: Construction: Fork:

> Fittings: Headset:

Cranks: Chain: lottom Bracket:

Pedals: Chain: Freewheel:

ront Derailleur: Rear Derailleur: Shifters: Handlebar: Stem:

Handlebar: Stem: Brakes: Grips: Brake Levers: Hubs: Rims:

Tires: Spokes: Saddle: Seat Post: Seat Post Q.R.: Colors: 15", 17", 19", 21, 22.5"
Titanium Alloy 3 · 2½
TIG welded by Merlin Metalworks
TIG welded Ishiwata Cromoly oversize
blade
Slotted cable stops,

Slotted cable stops, two water bottle bosses Shimano Deore Shimano Deore XT Biopa

Shimano Deore XT Biopace 46/36/26 Shimano CN 6120 Uniglide Kajita cromoly axle/Koyo sealed cartridge bearings Shimano Deore XT Racing

Shimano Deore XT Racing Shimano CN 6120 Uniglide Shimano Cassette CS 1000 12-28 6 spd.

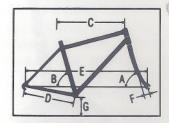
6 spd.
Shimano Deore XT
Shimano Deore XT SIS
Shimano Deore XT SIS
Tange Prestige
Brodie ICR by Nitto
Shimano Deore XT
Grab-on MTN-1
Shimano Deore XT
Shimano Deore XT QR Cassette

Shimano Deore XT QR Cassett Araya RM 20 Hard Anodized 26 x 2.0 Stainless Steel 14 guage

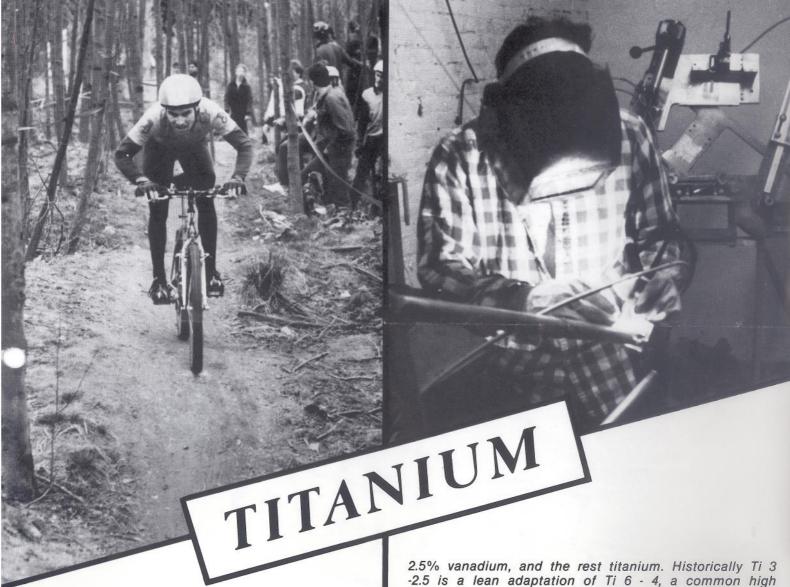
Avocet Racing II Suntour XC Comp Shimano Deore XT Bare Titanium, Matte Finish Frame, Chrome Forks

his is the bike that has brought excitement back to the vanguard of mountain bike design and construction. It has been acclaimed as the most innovative mountain bike made today. Mountain Bike Action called it "The Best Racing Mountain Bike". Bicycle Guide called it "A Metallurigical Masterpiece". It is a machine that truly transcends the state of the art, creating a challenge to the most skilled riders to find any limitations in it's creation. Carefully crafted by MERLIN METALWORKS of Somerville, Massachusetts, acknowledged specialist in the field of titanium bicycle frame construction, it uses the most suitable material known to man for the use of off-road racing. The titanium alloy used by MERLIN is extremely light, completely corrosion resistant, of exceptional tensile strength, yet offers the most comfortable and efficient ride for the most extreme conditions. Most im-

Frame Size (Nominal)	А	В	С	D	E	F	G
(15) 13	70°	75°	20	16.7	40.7	1.7	11.4
(17) 15	70.5°	74°	21.5	16.7	41.2	1.7	11.5
(19) 17	71°	73°	22.5	16.7	42.2	1.7	11.9
(21) 19	71.5°	72°	23.2	16.7	42.5	1.7	11.9
(22.5) 21	72°	71°	24	16.7	43.3	1.7	11.9



portant, it has been race proven by JOE MURRAY and DAVID TURNER during two seasons of NORBA competition, with great success, and without any failures. Combined with a special JOE MURRAY designed ISHIWATA oversize blade, TIG welded fork, SHIMANO DEORE XT component group, ARAYA hard anodized rims, and TANGE PRESTIGE handlebars (with an option of titanium), it is truly the ultimate off-road machine of today and tomorrow.



ur alloy is: 43% lighter than steel. 38% stronger than steel in a common chromoly used for igh quality bicycles. 300% stronger than aluminum in a mon weldable alloy used for bicycles. Which is why we say "use titanium when you want the best".

Of all the new material appearing in bicycles, MERLIN METALWORKS has made a committment to one of the nost expensive, difficult to obtain, and difficult to work.

Vhy choose titanium?

The short answer is performance. Among metals, itanium offers a unique strength to weight ratio. Although strength is a complex set of characteristics which cannot be directly compared between dissimilar naterials, a rough analogy can be drawn to the effect that n the alloys and tempers used in bike frames, a piece of itanium of a given dimension is as strong as the same limension in steel and as lighter as the same dimension is aluminum.

The seamless tubing currently used in the MERLIN 'ITANIUM mountain bike is made for aircraft hydraulic ines and nuclear plant heat exchangers. Although there are, and have been other titanium bike frames, this is the only production frame made from aircraft certified high

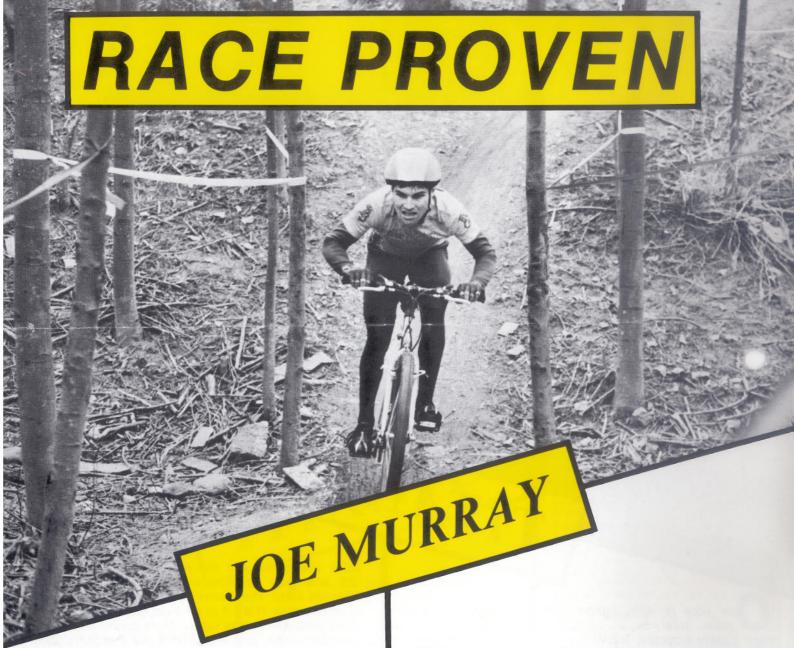
trength alloys.

The alloy used is called Ti 3 - 2.5 and is 3% aluminum,

2.5% vanadium, and the rest titanium. Historically Ti 3-2.5 is a lean adaptation of Ti 6 - 4, a common high strength alloy. The leaner alloy is primarily a tubing alloy used because Ti 6 - 4 is so hard that it is not practical to make into a seamless tube. The dropouts are cut from Ti 6 - 4 plate stock, and the fittings are machined from commercially pure titanium bar stock. The joints are TIG welded using fixtures specifically designed to shield the weld itself and the heat effective zone from contaminaton by air. This involves purging the air out of the inside of the

tubes with an inert gas.

Since titanium is not as stiff as steel, oversized main tubes have been selected - 1.25" outside diameter, and .75" untapered stays. Merlin feels that this is entirely consistent with the performance based development criteria, although it results in a somewhat non-traditional looking frame. Straight diameter stays help maintain stiffness and eliminate an unnecessary and costly step which if anything degrades performance. The result is revolutionary performance. The frame is as light as the lightest frames made of any material, as reliable as steel, and it provides an unprecedented combinaton of comfortable ride and tortional stiffness. JOE MURRAY says his MERLIN titanium frame bike climbs better because it weighs several pounds less and descends better because it absorbs shock and promotes control over rough terrain - a true leap in performance over any other frame he has ridden.



ince his first race at the 1983 Rockhopper Classic, JOE MURRAY has been a domiant force in mountain bike racing. He has won ver 60 races during his 5 year career, more nan any other competitor in the history of the port. He has won the ROCKHOPPER CLASSIC aree times, the WHISKEYTOWN DOWNHILL vo times, and the NORBA NATIONAL CHAM-IONSHIPS twice, in 1984 and 1985. In 1984 he on 19 races, 8 of them consecutively, a feat thich is yet to be duplicated. Joe is also ecognized for his talents as a bicycle and tire esigner. He heads up the design team for THE ICYCLE GROUP, working closely with MERLIN 1ETALWORKS, PAUL BRODIE, and overseas nanufacturers of bicycles, tires, tubing, and ther components. His main concentration for 988 is racing, with the goal of retaining the IORBA National Championships, and winning he NORBA World Championships.

HE BICYCLE GROUP is a small compared of partners and associates who have an extensive range of experience in the sport and business of cycling. Based for many years in the Pacific Northwest, we have been serving a demanding clientele who has demanded the right cycling products for extreme weather conditions. As specialists in mountain bikes, we have a working understanding of the development of fat-tire bikes at all levels. THE BICYCLE GROUP was formed to offer our skills as reliable and intelligent suppliers of the finest in quality mountain bikes at a national level. In addition to MERLIN MOUNTAIN BIKES, we are also distributors of the BRODIE MOUNTAIN BIKE, and CASCADE MOUNTAIN BIKES designed by JOE MURRAY.