

# LOGIC FORKS

Have you ever seen a fork bent sideways? Tom Ritchey hasn't. Seeing another opportunity for design improvement, Tom used his proven philosophy of strategic strength—placing and fat trimming to make the Logic Fork. The Logic Fork uses the world's first Force Directional butted steerer — thicker on the front and back, and thinner on the sides. It's stronger than conventional steerers where it needs to be, but overall it's lighter. Then Tom designed big 27mm triple butted fork blades, which make the Logic Fork Track like no other lightweight fork in the world. In fact, the Logic fork carried a Ritchey rider to victory in the 1989 NORBA World Championships. In 1990, half the pro/elite cross-country medals at the World Championships were won with Ritchey Logic Forks. With Logic you get proven performance and proven durability! New for '92 is the "Prestige" Logic Fork.



- MATERIAL ♦ 4130 chromoly
- STEERER ♦ force directionally butted
- FORK BLADES ♦ Logic designed 27mm round triple butted, large (600 R) radius curve
- OFFSET ♦ 1.8"
- SIZING ♦ 1", 1-1/8" (OS)
- FINISHES ♦ chrome, black chrome, raw
- THREAD ♦ 1"-1x24 tpi, OS 1-1/8x26 tpi
- LENGTH ♦ 40mm thread with 25mm slotting
- WEIGHT ♦ 700 grams (127mm steerer)

STEERER LENGTH	HEAD TUBE LENGTH	APPROX. WEIGHT (1")
127mm	75-90mm	700 grams
140mm	85-100mm	715 grams
165mm	100-130mm	730 grams
190mm	135-155mm	745 grams
215mm	155-180mm	760 grams
240mm	180-205mm	775 grams

Ritchey Team rider Thomas Frischknecht jubilant after his 1990 New England NORBA #4 victory



# TUBING & DROPOUTS

Frame tubes rarely fail in the middle. They usually fail at the ends near the welded joints. This was the original motivation behind Tom Ritchey's Logic Frame Tubing. Logic tubing is differentially double and triple butted — it thickens at the ends with a shorter and stronger butting. This design lets the tube withstand the concentrated heat of TIG welding and the rigors of front-end abuse. This construction also allows a much longer "thin" area, reducing weight significantly. These Ritchey designed, Tange manufactured tubes allow the building of the lightest chromoly frames in the world (3.8 lbs., 19" size), frames that are also strong enough to carry pro riders to three of the top six pro/elite medals at the 1990 World Championships. This year Ritchey introduces a full range of new Logic tubing, including mountain, road, and hybrid/cross tubesets.

## LOGIC TUBESETS

Tom Ritchey *steels* the world! Ritchey-designed Logic tubing has proven to be the best performing steel tubing in the world, with the results to prove it: 1989 NORBA World Champion (men's pro/elite cross country), 1990 Hillclimb Worlds gold medal (men's pro/elite), 1990 Worlds Cross-Country silver and bronze medals (men's pro/elite), two 1990 Worlds Cross-Country bronze medals (men's and women's pro/elite), and a 1990 Worlds Road silver medal (women's).

### MOUNTAIN

- ♦ LOGIC PRESTIGE PRO "WCS" (Intended use: pro competition, project bikes)
- ♦ LOGIC PRESTIGE COMP (Intended use: competition)
- ♦ LOGIC EXPERT — *seamless crmo* (Intended use: competition, performance riding)
- ♦ LOGIC SPORT — *seamed crmo* (Intended use: performance, sport riding)

### CROSS

- ♦ LOGIC CROSS — *crmo* (Intended use: hybrid, cross, and fitness bikes)

### ROAD

- ♦ LOGIC ROAD PRESTIGE (Intended use: road racing, time trials, triathlons)

## LOGIC DROPOUTS

Logic features finally come to dropouts. To match his tubesets, Tom Ritchey designed a light-weight, high performance set of dropouts with these features:

### REAR VERTICAL DROPOUTS

- ♦ cold forged for strength and durability
- ♦ designed *over axle center* derailleur position gives optimal chain wrap
- ♦ half moon CS and SS tange allows for off-center slotting for better chain/cog clearance with additional strength of brazed surface area
- ♦ 2-3mm shorter derailleur hanger, reducing mass and weight not needed on modern mountain and road bikes with slant parallelogram SIS index derailleurs
- ♦ SS/CS angles: 53° and 62° mountain design, 74° road bike design

### FRONT DROPOUTS

- ♦ wide width designed for 16-19mm fork blade ends
- ♦ cold forged for strength and durability
- ♦ unique weight saving cut away also allows for improved heat up

