An Introduction to Grove Innovations

Bill Grove grew up playing at the lathe and learning how to fix his toys with a drill press and milling machine. In his father's shop in the mountainous heartland of Pennsylvania, he honed his skills as a machinist and engineer. Along the way, Bill developed an interest in bicycling and as a teenager became interested in track racing. His passion for bicycles and his skills as a machinist lead him to building his own bicycle. From that point on the love grew and synergy of his two talents lead to the formation of Grove Innovations.

What makes Bill's designs work is his understanding of all the functions of the bicycle. Bill's first company, Titron Titanium Components, specialized in the design and manufacture of titanium and magnesium light-weight components. These components attracted the interest of many racers and eventually lead to an offer to help develop the successful BMX company, Hutch Hi-Performance. At Hutch, Bill continued to mature into a custom frame builder and designer of innovative bicycle components.

Like all artists and entrepreneurs, Bill eventually developed his own company so that he could design and build bikes that handle and feel like only a GROVE can.

It is not only Bill's talented hand as a builder or his ability as a biker that makes a "Grove" good, it's his attention to detail, his maticulas manner and his devotion to quality that makes for the "Grove Experience".

GROVE INNOVATIONS T.M.

HAMMERHEAD BARS

T.M., PATENT PENDING

"The ultimate choice in mountain bike bars for a better feel and more control".

... Stiffer torsionally for better performance.

... Controlled flex means better shock absorbtion.

... Anatomical bend for greater comfort.

... Chromemoly construction for reliability.

——— THE PERFECT MATCH ———

Available in these performance colors:

Black, White, Red, Blue and Yellow

Also available stems and anatomical bar.

GROVE INNOVATIONS

501 Electric Avenue

Lewistown, PA 17044

(717) 242-3004

GROVE INNOVATIONS T.M.

ASSAULT SPECIFICATIONS

Construction:	Tig welded, with Filet Brazed and hand finished drop-outs. Brazed and silvered brake, bottle bosses and cable guides.
Frame:	Built by Bill Grove using True Temper Double Butted 4130 Chrome Molybdenum.
Fork:	Built by Bill Grove with True Temper Chrome Molybdenum Uni-Blades.
Handlebars:	24" Hammerhead Bars designed and built by Bill Grove.
Hubs:	Shimano Deore XT
Rims:	Araya RM 20
Tires:	Ritchey Force
Crank Set:	Shimano Deore XT
Pedals:	Shimano Deore XT
Freewheel:	Shimano Deore XT
Chain:	Shimano Uniglide
Shift Levers:	Shimano Deore XT
Front Derailleur:	Shimano Deore XT
Rear Derailleur:	Shimano Deore XT
Brake Levers:	Shimano Deore XT
Front Brake:	Shimano Deore XT Cantilever
Rear Brake:	Shimano Deore XT U-Brake
Grips:	Grab-On
Saddle:	Avocet Touring I
Seat Post:	Suntour XC 300mm
Seat Clamp:	Shimano Deore XT
Frame Specs:	70 degree Head Tube 72.5 degree Seat Tube 17.2" Chain Stays 12" Bottom Bracket
Sizes Available:	15-1/4"; 16-1/2"; 18"; 19"; 20"; 21"

T.M. INNOVATIONS

GROVE INNOVATIONS
501 Electric Avenue
Lewistown, PA 17044
(717) 242-3004

GROVE INNOVATIONS T.M.

TANDEM SPECIFICATIONS

Construction:	Tig welded, with Filet Brazed and hand finished drop-outs. Brazed and silvered brake, bottle bosses and cable guides.
Frame:	Built by Bill Grove utilizing True Temper Double Butted Chrome Molybdenum and custom high quality 4130 Chrome Molybdnum Tubes.
Fork:	Built by Bill Grove using heavy duty True Temper Chrome Molybdenum Uni-Blades.
Handlebars:	Designed and built by Bill Grove. Captain - 24" Hammerhead Bars Stoker - Custom Hammerhead Stem with 20" Anatomic Bar.
Hubs:	Suntour XC Sealed Q.R.
Rims:	Araya RM 25
Tires:	Ritchey 1.9 Quad
Crank Set:	Specialized Tandem 28-38-50
Pedals:	Suntour XCD 6000
Chain:	Suntour
Shift Levers:	Suntour XCD 6000
Front Derailleur:	Suntour XCD 6000
Rear Derailleur:	Suntour XCD 6000
Brake Levers:	Suntour XCD 6000
Front Brake:	Shimano Cantilevers
Rear Brakes:	Shimano Cantilevers and U-Brake
Grips:	Grab-On MT-1
Saddle:	Avocet Touring I
Seat Posts:	Strong 300mm
Seat Clamps:	Suntour Q.R.
Sizes Available:	(Captain/Stoker) 19"/19"; 19"/18"; 19"/16" Custom sizes are optional
Colors:	Red and Teal

INNOVATIONS T.M.

GROVE INNOVATIONS
501 Electric Avenue
Lewistown, PA 17044
(717) 242-3004

GROVE INNOVATIONS T.M.

X-AT SPECIFICATIONS

Construction:	Tig welded. Brazed and silvered brake, bottle bosses and cable guides.
Frame:	Built by Bill Grove using custom made 4130 Chrome Molybdenum Tubing of the highest quality.
Fork:	Built by Bill Grove with True Temper Chrome Molybdenum Uni-Blades.
Handlebars:	24" Hammerhead Bars designed and built by Bill Grove.
Hubs:	Suntour
Rims:	Araya RM 20
Tires:	Ritchey Force
Crank Set:	CDX 6000
Pedals:	Suntour
Freewheel:	Suntour Comp.
Chain:	Suntour
Shift Levers:	Suntour XC 9000
Front Derailleur:	Suntour XC 9000
Rear Derailleur:	Suntour XC 9000
Brake Levers:	Suntour XC 9000
Front Brake:	Suntour XC 9000 Roller Cam
Rear Brake:	Shimano Deore XT
Grips:	Grab-On MT-1
Saddle:	Avocet Touring I
Seat Post:	Suntour XC 300mm
Seat Clamp:	Suntour Q.R.
Sizes Available:	17" and 19-1/2"
Color:	True Blue

T.M. INNOVATIONS

GROVE INNOVATIONS
501 Electric Avenue
Lewistown, PA 17044
(717) 242-3004

GROVE INNOVATIONS T.M.

1988 DEALER PRICE LIST

ASSAULT:			
Frame, Fork & Hammerheads	$425.00	Shimano Deore XT	$895.00
		Suntour XCD 6000	$695.00
X-AT:			
Frame, Fork & Hammerheads	$550.00	Shimano Deore XT	$1025.00
		Suntour XCD 6000	$ 825.00
TANDEM:			
Frame, Fork & Hammerheads	$945.00	Shimano Deore XT	$1385.00
		Suntour XCD 6000	$1250.00
TIME TRIAL:			
Frame & Fork	$550.00	Suntour Group	
TRIALS:			
Frame, Fork & Hammerheads	$370.00	Suntour Group	$570.00
HAMMERHEAD BARS:	$ 42.00 ea.	Buy 6, get the 7th FREE	
STEM:	$ 35.00 ea.	Buy 6, get the 7th FREE	
ANATOMIC BAR:	$ 11.50 ea.	Buy 6, get the 7th FREE	
HARD CORE FORKS:	$ 85.00 ea.		

GROVE INNOVATIONS
501 Electric Avenue
Lewistown, PA 17044
(717) 242-3004

T.M. INNOVATIONS