

# INTRODUCTION

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- Climb to inseam-stretching seat heights straddling one of those fat top-heavy tanks to board a 500-600 pound Buffalo is a good description of today's typical "Adventure Touring" motorcycle .... Not my idea of adventure.

## QUALITY

- In designing a machine that goes anywhere, dependability is the most important issue. Why settle for trade-offs ? I think it might as well be a bike that is the best made possible with NO rusting materials and every part very over-engineered. That way it is a one-time purchase that can be updated over time and can be owned for a lifetime or more.

## THEME

- Mobility, freedom .... themes that have endured since the cowboy and his mustang on the open range.

## **CHARACTER**

- Power, contemporary beauty and the honest soul of a thoroughbred. Combining a bold presence with understated traditional elegance expressed thru its materials, workmanship and extreme reliability.

## **MISSION**

- A new way of thinking about the ride has resulted in a masterpiece of safety and design. It couldn't have become anything else, Every feature has been carefully tailored to create this, the world's finest motorcycle into a stable timeless legacy.

## **Prime Directive**

- To make the very finest quality motorcycle possible using the best materials and the best technology while still keeping the design as pure and simple as possible.
- For example, all metal parts are Liquid Nitrogen annealed to add strength and quality for the longest possible life and the best most reliable possible performance.
  - 1.** Easily customizable
  - 2.** Reliable .... best possible materials and technologies
  - 3.** Modular construction
  - 4.** Readily available parts
  - 5.** Serviceable almost everywhere
  - 6.** Very easy for the owner to work on
  - 7.** Always up-datable
  - 8.** 100% Recyclable
  - 9.** Profile as narrow as possible.
  - 10.** Lowest possible vibration and sound (tunable).
  - 11.** Fewer parts .... pure and simple
- Able to go almost anywhere you need or want to go. .... two lane twists, horse trails or the beach  
Go to the corner store,  
or ride 4 days in the saddle on the open road.

- Whatever the ride or rider calls for it delivers, an Endure bike one minute and a Cruiser the next. This motorcycle does not make trade-offs between the needs of hi-ways and horse-trails. It adjusts its center of gravity and overall geometry to adapt very specifically to differing riding conditions.

## **Purpose**

- Always simple and focused; evolving better and better. This long slow process started 9 years ago.
- It began with the relationship between the rider and the road, the bike and the road, and the rider and the bike. It was this triangle that defined the function. As functional parameters emerged, form took care of itself.
- It is like designing a motorcycle having never seen one before. As a result, the design involves some entirely new approaches.
- I have made many of the parts do double or triple duty to reduce complexity and weight.

## **FORM-vs-FUNCTION**

### **Look, Feel, Sound**

- This Motorcycle is a symbiotic fusion of form and function.
- It involves sound and feel and smell as well as sight. Barely a vibrations to feel, and only lovely sounds from the engine mechanicals and the perfect exhaust note.
- The form is modern, sleek and clean, showcasing the best of old-school mechanics and the use of classic materials such as brass and wood. A motorcycle needs to be a machine; no hidden parts .... yet it shows off its gismos, little pieces, nuts, bolts and linkages. It looks like there is a lot going on, yet its a clean uncomplicated look.
- When it comes to function, safety first. The R-Bike is most actively safe two-wheeled machine ever. Rather than focusing on passive safety or limited active safety such as anti-lock braking alone, my motorcycle goes much further with adaptive geometry. The function is in its innovative many-rides-in-one

"shape-shifting" ability.

- My motorcycle is a modular, simple and reliable approach on a stable long-term rust-free over-engineered platform so you can develop a relationship that will endure.

## **CONSTRUCTION**

- The bike is built around the rider.
- To keep the bike as simple as possible, old technology is often used, but often used in new innovative ways.
- Components often play multiple roles, such as the engine support rods being hollow and serving as ...
  1. Oil lines both feed and return for the top and bottom ends
  2. Oil dampening of engine vibration before it gets to the frame.
  3. Engine supports
  4. Shapeshifting members

## **Materials**

- ◇ Wood (Ash, Cherry, Walnut)
- ◇ Leather (North American Bison)
- ◇ Stainless steel
  - 103 stainless
- ◇ Aluminum
  - 356 T6 "A" Aerospace quality Prime alloy with a tensile strength of 45,880 psi
- ◇ Magnesium Aluminum alloy
- ◇ Nickel / Chrome /Tungsten alloy
- ◇ Copper
- ◇ Bronze
- ◇ Gold

## **THE ENGINE**

- At the heart of this motorcycle is the engine.  
A simple, powerful, stable, reliable, single cylinder powerplant.

## **SHAPE-SHIFT on-the-FLY**

- The shapeshifting frame is an intelligent step toward a much safer riding experience because it adapts to its environment.
- Shape-Shifting technology is a breakthrough in the marriage of form and function. It can morph its form into many rides to function according to the wants and needs of the rider and the conditions of the road or trail. From open-hiway to deep-woods and everything in-between; changing its wheelbase, effective swingarm length, rake, trail, peg positions, handlebar positions, seat height and center of mass.
- Imagine leaving the house with the bike "Standard" mode; quite pleasant around town with its comfortable riding position. As you leave the side streets and enter the open highway, the bike shape-shifts into a Cruiser. You take the highway out of town. The ride gets longer so for comfort you switch to Touring mode. After many miles, you take an exit onto rural two-lane twisty roads and so shape-shift into more of a tuck for backroad strafing. You see a dirt and gravel road on your left, so you shape-shift into an Enduro and take the turn ....