

This unique bicycle with front wheel drive, reclined seating position, unique handlebar control system and innovative construction techniques sets new benchmarks in cycling performance and aesthetics.

The bicycle is handmade in Taiwan, exploiting state of the art technologies and construction methods, but with a bespoke hand made construction method, including tube shaping by hand and hand welding. The design was developed by traditional drawing processes transcribed into CAD.

This bicycle design exhibits perfect FFF (form follows function) and projects the aesthetical qualities of an artwork. This unique and highly innovative work is the culmination of extensive research and investigations over a five-year period.

This complex design satisfies many needs: sculptural qualities to accommodate the reclined human body; structural performance to capture human power; aerodynamic shaping of the combined human and bicycle form; and the interaction between ergonomics, human power and bicycle handling.

The designer was tasked by the client - Cruzbike Inc., U.S.A. - to create a design that would set new speed benchmarks for human power, that employed standard bicycle components, be economically feasible to handcraft and have a finished weight under ten kilograms. The handmade bicycle pictured was sent to the USA where in October 2010 it claimed the World Record for the fastest women's 100 miles under the international rules of the Ultra Cycling Marathon Association.



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