



CUSTOM

The Winner's choice

Custom Sulky

Custom Sulky OY, established in 1977, is renowned world-wide for producing the most advanced race bikes and training carts.

"We have a special understanding of the physiology of the horse relating to the driver. When combined with advanced product development, manufacturing and materials engineering you can understand the global acceptance of Custom bikes and carts".

The success is based on extensive and constant product enhancement. Custom Sulky has developed unique testing equipment for the refinement of our sulkies and works closely with universities and engineers to perfect our concepts. In addition to our bikes and carts, Custom Wheels and Custom Bearings are rated tops in the world.

Our research and engineering dictates the use of many the same materials as the aviation industry. Our metal alloys and carbon fiber materials focus on light-weight, stability and safety in all racing and training conditions.

In Europe, Custom commands from 60 to 80% market share. In the Prix d'Amérique 2008 in Paris, France all of the 18 teams used CUSTOM F.C.S. (Full Carbon Sulky). Although not a concentration until now, Custom's North America wins are solid with John Campbell in the 1988 Hambo driving Armbro Goal and Ron Pierce in the 1999 Triple Crown with Blissful Hall.

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www.customsulky.com

Custom Sulky's North American Distributor is:

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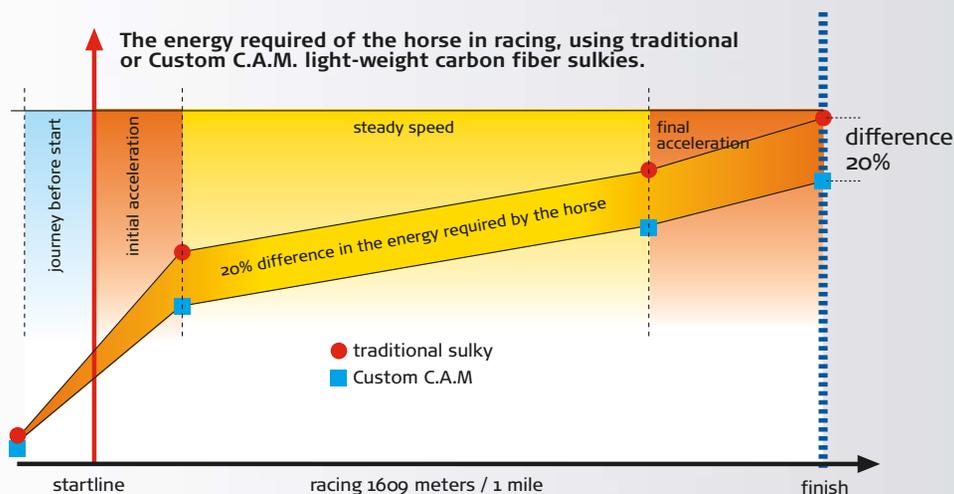
Harness Shop and Dealer Inquiries are Welcome

Principles in Developing Racing Sulkies

The development of Custom racing bikes is based on speed and safety. With our bikes the focus is on reducing the forces that "slow down" and disturb the movements of the racehorse.

Minimizing Air Resistance and Reducing Traction Resistance are two main elements of our race bikes. By placing the driver in the elliptically shaped "suction zone" Custom employs a concept that is basic in aviation.

Traction Resistance minimization involves primarily the weight and the stability of the bike. Our goal is to eliminate "momentary plowing" of the wheels against the racetrack surface. The laws of physics prevail and both forces are directly proportional to the sulky's total weight and velocity. Stability of design also gives you a more undisturbed racing situation, soother drives with less bike fluctuation and more comfort is paramount with Custom bikes.

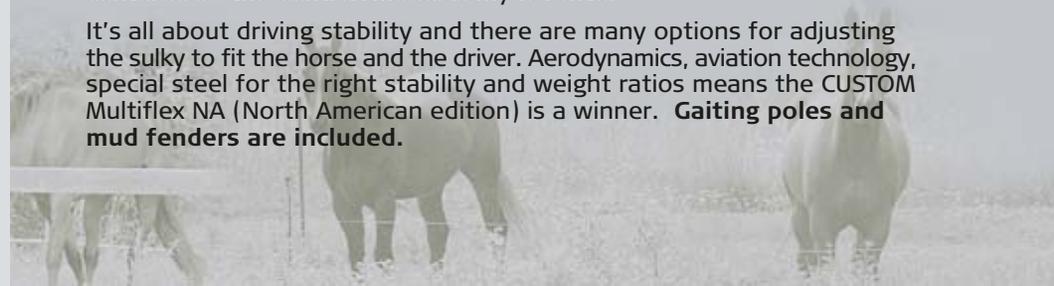


CUSTOM Multiflex (North American edition)

It is no mistake that the Custom commands a 60 to 80% market share in Europe. "Our focus is speed, comfort, convenience and safety."

Ron Pierce says, "The CUSTOM Multiflex NA (North American edition) tracks really well, helps a horse accelerate and is by far the most comfortable bike on the market today. Moving the foot rests and the seat is a snap for quick adjustments for the horse and driver and I feel very secure on a CUSTOM Multiflex. The off set unit is great but for me I want to be centered so the Centrex model is my favorite."

It's all about driving stability and there are many options for adjusting the sulky to fit the horse and the driver. Aerodynamics, aviation technology, special steel for the right stability and weight ratios means the CUSTOM Multiflex NA (North American edition) is a winner. **Gaiting poles and mud fenders are included.**



CUSTOM C.A.M. (Carbon American Model) **A 21st Century Carbon Racing Bike.**

With Custom's history of safety, stability, light weight, splendid reliability, aerodynamic design, and great versatility you are ahead of the game.

The CUSTOM C.A.M. is manufactured 100% of carbon fiber to fit the demands of North American Harness World...speed, safety, aerodynamic design, reliability, stable ride and versatility.

Why light-weight?

Weight (mass) on the horse is work and impacts speed (velocity). We want only to enhance the speed quotient hence we decrease the mass.

Why carbon fiber?

Carbon fiber provides a light and very stable structure which is pleasing for the horse and helps minimize rolling resistance. With carbon fiber structures we can add extra material in the exact points of where the forces are directed to the sulky.

The energy required of the horse in racing, using traditional or Custom C.A.M. light-weight carbon fiber sulkies, is 20% in the example race.

Formulae of energy demand

Steady motion $E_1 = 1/2 mv^2$

Accelerating motion $E_2 = m \times a \times s$, $a = \frac{dv}{dt}$

Rolling resistance $E_3 = \mu \times m \times g$

where energy consumption

$m =$ mass

$a =$ acceleration

$v =$ velocity

$t =$ time

$\mu =$ rolling resistance coefficient

The aerodynamic CUSTOM C.A.M...

promotes the horse's free movement and also decreases air resistance. The horse, sulky, and driver are most harmonious and the CUSTOM C.A.M. accommodates all demands.

CUSTOM C.A.M. is versatile and adjustable at three different heights, making the basic size suitable for nearly every horse. **Gaiting poles and mud fenders are standard with the CUSTOM C.A.M.**



Custom Training Carts

Custom Sulky also knows the demands of various training conditions in developing its training carts. Whether you train at a track, training center or farm, Custom horse and trainer options are user friendly. Our training carts are equipped with high-class suspension systems to help maintain the health and well being of the horse and the trainer.

We have ten training carts in our product line available to order but our North American concentration is on two units.

CUSTOM Athletic II

The patent protected CUSTOM Athletic II represents a new generation of resistance carts. The II is all steel with a high-quality hydraulic pressure system, independent suspension and adjustable gas shock absorbers. The CUSTOM Athletic II is designed for training horses under a variety of training conditions and can be used with and without resistance.

Resistance conditioning for harness horses is not new. With the CUSTOM Athletic II you can control the degree of resistance easily with one foot. This relates to an easier correlation of training at specific heart beats per minute and speeds...you'll love it. Resistance carts are all about hill training and you control the steepness and the length of the hill.



CUSTOM Speedmaster

Have you ever wished for a jog cart that acts and feels like a race bike, or a race bike that was as safe and comfortable as a jog cart? Your wish has come true. The hybrid CUSTOM Speedmaster gives you the best of both worlds. The CUSTOM Speedmaster is a full-steel training bike with a wider arch, shorter shafts and an air suspension system that provide an exceptional driving feel even at high speeds. **Gaiting poles are standard with the Speedmaster.**

