

Windmaster

Aerodynamic Innovations by LCS

theSMARTLOOK
engineered sliding systems



TRANSFORMED FROM THE 1800'S

LOAD COVERING SOLUTIONS MEETS MODERN DAY TRANSPORTATION TARPING REQUIREMENTS

fleets jump on board with the Windmaster™ SMARTLOOK

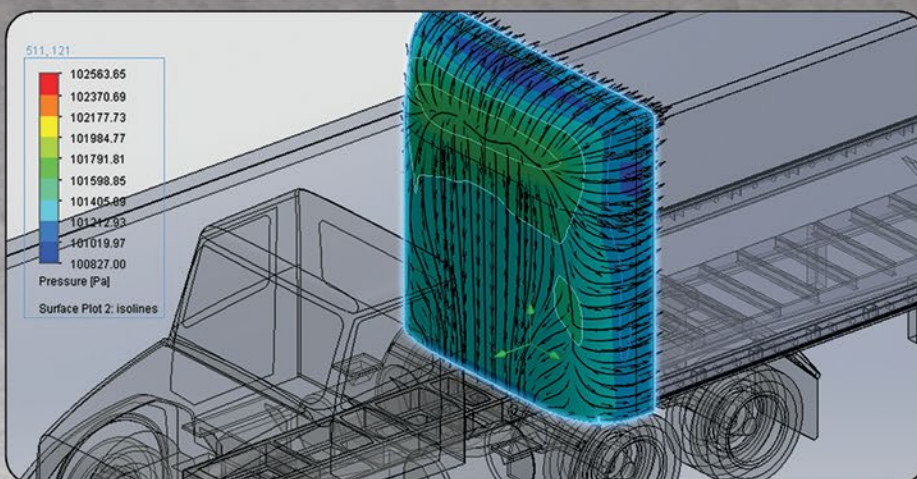


LCS – Masters Wind Drag



CFD Simulation Analysis at 65mph

System Ht.	Windmaster Bulkhead Comparison to Flat BH –Wind Drag Reduction				
	Head Wind Yaw Angle 0°	Cross Wind Yaw Angle 6°	Cross Wind Yaw Angle 10°	Wind Drag Reduction	Improved Fuel Economy
100" Ht.	11.67%	9.10%	11.00%	9.96%	4.98%



Load Covering Solutions becomes the first sliding tarp system manufacturer with a tested series of aerodynamic trailer fairings to address the critical gap between the back of a truck & front of a flatbed trailer. The Windmaster™ is a rugged one piece molded fiberglass component mounted to a robust frame and set ahead filling 20" of the critical gap. The Windmaster™ enables 100% utilization for maximum payload on the trailer deck, while allowing cargo control equipment to be stored in its interior. **Windmaster™ SMARTLOOK** Sliding system when compared to a 100" high flat bulkhead reduced wind drag by 9.96% while improving fuel economy by 4.98%



Why fleets are turning to LCS & Windmaster™ SMARTLOOK

- 10% Wind drag reduction **Promotes Driver Safety**
- 5% Fuel Savings **Promotes Less Emissions**
- Full frontal Integration makes trailer with system LOOK like one combined unit
- Full deck length utilization

Designing Tomorrow's Innovations for Today's Trucking Industry



evolution & design

LCS Differentiates itself from the Competition

Load Covering Solutions is the **only** load covering company that is fully invested in reducing wind drag resistance to the front of a soft-sided flatbed trailer. Currently the Windmaster™ at 100" height reduces wind drag by 10% while realizing 5% fuel savings.

Since 1994, Sliding Tarp System bulkheads have typically been flat walls causing massive wind drag. When fleets started looking at lowering system heights to compensate for wind drag and rising fuel cost, the LCS design team took to design a series of revolutionary aerodynamic trailer fairings for its own sliding tarp systems.

Typical Flat Bulkhead



Since 1994 to the present, Sliding Tarp System bulkheads have typically been a flat wall

Windmaster™ Original



2014-2015 LCS introduced the 1st ever all fiberglass CFD tested aerodynamic front closure

Windmaster™ SMARTLOOK



2016 LCS went one step further redesigning the Windmaster with 10% wind drag reduction

You don't need to reduce the height of your sliding systems. You need to purchase the Windmaster™ SMARTLOOK

features



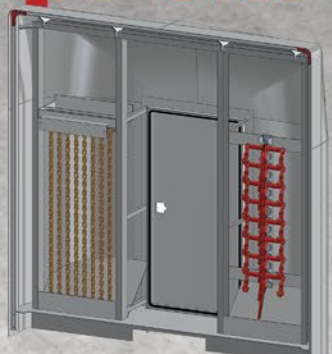
POW-AIR – Air Release Front Locks Mechanism – Standard with the SMARTLOOK
LCS took its original 1994 manual operated front latch locking mechanism and put air cylinders overhead. Operated by an exterior driver side air switch all 4 corners disengage or engage simultaneously.



Man Door for Easy Access – Standard
Exterior Finished & trimmed in a Mirrored Waffle Stainless Steel

options

Interior Windmaster™ Cargo Control Storage



Chains with Ratchet Binder Rack



Chains, Binders & Shelves



Chains & BX Binder Storage

Windmaster™ model options

LCS's commitment in 2008 was to be the 1st aerodynamic manufacturer of retractable load covering tarp systems for open deck flatbed requirements, which led to not just one tested and proven design of Windmaster™, but four.



Year 2008: Windmaster "Bullet"

LCS introduced the 1st ever "high arched" dome roof sliding tarp system branded today as the  dedicated for steel haulers. Fleets carrying round metal coils did not need the high side square corner sliding systems which caused unnecessary wind drag and decreased fuel economy. In 2010, an irregular looking but highly effective "Bullet" like nose fairing was designed to sit over top of a traditional flatbed DOT bulkhead to maximize

wind drag reduction for the already sleek looking rounded top sliding tarp system. Man Doors are available as an option. Roof damage caused by heavy snow, ice or rain is rarely a threat for this round top design, which tends to be more common amongst flat top systems. Drivers immediately notice smoother road handling the first time they pull a Slide Kit over the open highways with strong cross & head winds.

Drivers comment repeatedly, "it's like not having a trailer behind you."



Year 2015: Windmaster™ "Original"

LCS commenced design in early 2014, and officially released at MATS Truck Show in Louisville, KY 2015 the 1st and newest aerodynamic design for a flat top sliding tarp system. The "Windmaster™ Original" was designed to replace the typical aluminum flat bulkhead most commonly seen on any retractable tarp system, with a new and

aerodynamic appearance. Easily identifiable with an upper profile projecting into the truck & trailer gap 32" and tapering down the sides to 10" at the deck level. The "Windmaster™ Original" unlike the 2016 Windmaster SMARTLOOK does not mount ahead of the trailer, but rather is anchored to a Heavy Duty Frame bolted to the front sill of a flatbed trailer.



The GR8LOOK was added to the Windmaster Line Up of Rolling Tarp System Fronts in 2018 as an Aerodynamic alternative to a flat Aluminum Bulkhead design. Its Wind Drag Reduction, was CFD tested at 5.2% w/ Fuel Reduction of 2.6%. It incorporates a Fiberglass Patent Pending Molded Corner with a Great Looking Integrated upper Nose Fairing. Center Panels are available in Aluminum, Stainless Waffle or Mirror Smooth.



specialized goose neck & utility trailers



Richie Keith, Mega Rock Crawler Celebrity – PlowBoy XTREME OFF ROAD
Columbia, TN.



Windmaster™ unique design adapts perfectly for the front of a goose neck trailer. Wrap the front with full advertising and deliver your message “head on”.

digital billboard advertising

Over the Road Advertising has become one of marketing's largest and most successful ad promotional tools and with the ability to digitally print on soft side trailers, **LCS** just keeps on trucking with new systems for customers that understand the Return on Investment (ROI). Richie Keith of Columbia Tennessee owns and operates a large farm by profession, but is best known as PlowBoy XTREME OFF-ROAD by passion.

Richie contacted **LCS** in the summer of 2016 to cover a new 38Ft MAXXD GN trailer he had on order with a tilt tailgate. Richie expressed his need to keep his equipment secure and contained while traveling on location promoting numerous rock crawling events. The major advantage of a **LCS** load covering system over a hard side trailer is the ability to have unrestricted side and top loading abilities when those unfortunate mishaps occur on the circuit,

which is key in the off-road world. If a machine can be loaded from the rear end with a winch, the driver and pit crew saves substantial time and cost. Richie and his graphic designer provided **LCS** with the ad campaign that would create the billboard advertising for his sponsors on all 3 sides of the cover. **LCS** took it one step further and promoted the fiberglass **Windmaster™** as a great front end promotional opportunity with 3M digital wrap graphics.



LCS Delivers Corporate Advertising, “Over The Road”



flatbed trailers



TLX/AWL Transport, Mantau OH purchased two systems to test road handling and stability against a competitor's flat aluminum front system. Within one week both drivers stated they would never pull any system other than an LCS Windmaster™ **SMARTLOOK**.



Greg Tucker of "A Wing And A Prayer Express" from Ocala Florida chose the Windmaster™ **SMARTLOOK** system to promote Breast Cancer Awareness across America

b-train trailers

LCS Windmaster™ **SMARTLOOK** completes the front end of any open deck trailer with a smart &

professionally designed aerodynamic structure. With its Patent Pending contoured

design and sitting ahead of the trailer with an optimum 20", the design team assembled by LCS has provided the flatbed trucking

industry with a long over-due solution to wind drag reduction and driver safety. Call the EXPERTS today at 1-877-790-5665



Why fleets are turning to LCS & Windmaster™ **SMARTLOOK**

- 10% Wind drag reduction, 5% Fuel Savings
- Windmaster™ Overlaps front car, providing better weather seal protection
- Full frontal Integration makes trailer with system LOOK like one combined unit
- Full deck length utilization with cargo control storage in the Windmaster™



LCS Windmaster™ Patent Pending Contoured Design

drop deck trailers

3 Models of Drop Systems;

- Split System breaks at the drop with both systems sliding on their independent decks.
- Single Transition System allows upper deck to travel backward to rear lower deck
- Dual Transition System allows both decks to roll onto the opposite deck.



double drop trailers



Specializing in load covering challenges LCS is committed to deliver to the customer the best custom designed rolling tarp systems with aerodynamics always at the forefront.

The Windmaster™ **SMARTLOOK** ensures oversized square soft side sliding covers, typically known for increased wind drag and plummeting fuel economy, are built to enhance driver safety. LCS mission is to ensure our retractable load covering systems are on the leading edge of new aerodynamic technology.

LCS – Masters Wind Drag

LCS – Leading Aerodynamic Technology for Sliding Tarp Systems





Load Covering Solutions has one of the most extensive Install & Service networks anywhere throughout North America. LCS Field Technicians travel extensively ensuring our dealers are constantly trained, knowledgeable and ready to assist when called upon. LCS goes one step further and has successfully trained several fleets on how to install, repair and maintain their own fleet of LCS load covering systems. **LCS HAS YOU COVERED!**



Certified LCS Install Dealers

Canada

Abbotsford, BC
Lethbridge, AB
Edmonton, AB
Winnipeg, MN
Burlington, ON

USA

Portland, OR
Denver CO

Houston, TX

Conroe, TX
Sterling, IL
Aurora, IL
East Dundee, IL
Seymour, IN
Minneapolis, MN
Winchester, TN
Coopersville, MI
Saginaw, MI
Gaylord, MI

Mantua, OH

Blasdell, NY
Williamsville, NY
Bergen, NY
Charlotte, NC
Jefferson, LA
Portland, ME
Branchburg, NJ
Plaistow, NH

Australia

Wodonga Vic, AU

LCS, Committed To Deliver Continuous Product Innovations!

NEW High Impact Bump Guard Rail Patent Pending



Rolling Track protected w/ 1-1/4" protruding lower Guard Rail.
Sys Maintains 108" legal width.

NEW Loc'N-Load Lock & Tensioning System



LNL is Patented with a Patent Pending Fixed or Detachable Handle.
Loc'N-Load - No Post or A-Frame.

NEW 4" Patented Light Bar Feature



Alum. Slide-In Undermount Extrusion with 2" LED Lights.
Protected by New Bump Guard Rail.

NEW 2" Patented Light Bar Feature



Alum. Slide-In Undermount Extrusion with 1" LED Lights.
Protected by New Bump Guard Rail.



PO Box 1958, 715 N. Rocky Ridge Road,
Cadiz KY 42211
Toll Free: 1-877-790-LOOK (5665)
Tele: 270-522-3260 | Fax: 270-522-1171
info@loadcovering.com
www.loadcovering.com
www.loadcoveringtrailers.com



5499 Harvester Road Burlington
ON L7L 5V4
Toll Free: 1-800-465-8277
Fax: 905-335-8499
info@loadcovering.com
www.loadcoveringsolutions.com

Kentucky SALES - PARTS - SERVICE - INSTALLS - REPAIRS



© Copyright 2025



Designing Tomorrow's Innovations for Today's Trucking Industry