

# Cyclone Power Pullers; Iowa State University's 1/4 Scale Tractor Pulling Team

SEPTEMBER 2013 EDITION

## 2013 Year in Review

### INSIDE THIS ISSUE:

2013 Design & Build Review 2

X-Team Review 3

Sponsorship 3

Sponsorship Pull 3

Team Photo 4

Current Sponsors 5/6

Sponsorship Structure 6

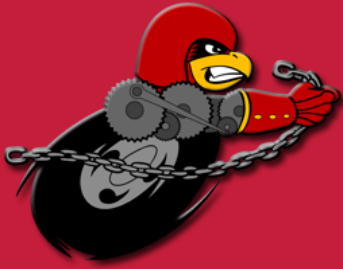


2013 Cyclone Power Pullers at the ASABE IQS Competition (L-R): Austin Willows, Dustin Kroening, Dan Killpack, Clayton Hamilton, Lainey Beefink, Nick Stratton, Alex Haight, Jason Herbers, Josh Crouch, and Conner Toennies

Hello all, and welcome back to another season. The 2013 build year is over and it has been eventful. Throughout the year, The DeCYder was designed to compete in the 2013 ASABE (American Society of Agricultural and Biological Engineers) International 1/4 Scale Tractor Student Design Competition held in Peoria Illinois. The DeCYder was designed with the success of its predecessor, Cymon Sez, in mind. A lot of new designs and ideas surfaced over the summer, and have given the Cyclone Power Puller's design team a lot to consider for 2014. With an innovative and reliable tractor design, and the continued support from our sponsors, the 2014 Cyclone Power Pullers hope to bring the championship trophy to Ames, IA.

*“This year’s competition was very challenging, but the team pushed through to get the tractor on the track”*

*- Alex Haight*



## The DeCYder 2013 A-Team Overview

The DeCYder, the 2013 tractor, was the second true functional utility tractor in the Cyclone Power Pullers lineup. Like the team’s first utility style tractor, Cymon Sez, The DeCYder featured a tri-mode hydrostatic/hydro-mechanical transmission, known as the CyVT. The transmission also features a “true-neutral” mode, which eliminates troublesome neutral “creep”. The DeCYder also featured functional accessory hydraulic ports, a three point hitch, a single Briggs & Stratton 31hp engine, and a revamped design to alleviate serviceability issues found in Cymon Sez. Marketed to the small hobby farmer, it was designed around utility and comfort. The 2 wheel drive setup gave The DeCYder increased maneuverability, while a redesigned operator station improved comfort. Lastly, The DeCYder featured a full floating rear axle design which increased serviceability and assisted in getting power to the ground with an open differential.

At competition, The DeCYder finished in 22nd place. Transmission control hurt the team’s first two pull performances, which led to a less than satisfactory overall finish. A 7th place finish in the written report, 11th in the oral presentation and 11th place in manufacturability gave stepping stones to work from in the future.

The DeCYder will provide a strong base for the upcoming X-Team. The 2013 X-Team will be lead by Clayton Hamilton and Quenton Schneider. Testing the CyVT transmission and rear end are the top priorities of the team.



The 2013 Cyclone Power Pullers’ tractor, The DeCYder. Designed by A-Team members Alex Haight, Jason Herbers, Nick Stratton, Cody Brown, Eli Peterson, Ryan Fahn, Sean Conrad, Josh Crouch, and Conner Toennies.

## Cymon Sez 2012 X-Team Overview

Cymon Sez, the 2012 A-Team tractor, competed once again in Peoria this year. The X-Team did not fare any better than A-Team, as a broken belt during the pull led to a 10th place finish. Time constraints, electrical issues, and hydraulic issues plagued the X-Team, while they worked hard to present the best possible tractor at competition. A strengthened frame, improved operator station, and improved floorboards were some of the improvements made to the tractor throughout the year.

At competition the X Team saw success in both the written and oral presentations, achieving a 1st place finish in the written report and a 2nd place finish in the oral presentation. Despite some brake damage and a broken belt, Cymon Sez is back together and functioning. It will be pulling strong at the upcoming Sponsor pull. We are excited to see its full potential after the X-Team's improvements.

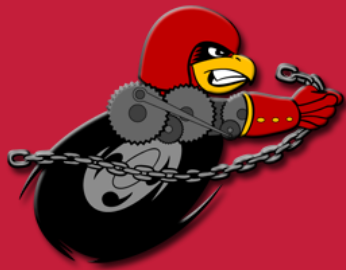
### Sponsorship

It's never too late to become a sponsor of the Cyclone Power Pullers. Without loyal sponsors we would not be able to produce a tractor and compete at such a high level year in and year out. Donations of cash, parts, or supplies are always welcome. Sponsor request letters will be sent out the third week of September this year so please watch your mail. We need your help to make the Cyclone Power Pullers the international champs in 2014. Additionally we are looking to compile a more extensive email list for quicker updates and easier contact with all companies. Please email us at [cyclonepowerpullers@gmail.com](mailto:cyclonepowerpullers@gmail.com) with all addresses you would like added to our list.

### Sponsorship Pull

The Cyclone Power Pullers are holding their annual Sponsor Appreciation Pull on **Saturday October 19th 2013**. We hope all our sponsors will be able to make it and take a look at the tractors. The appreciation pull not only provides an opportunity for sponsors to see what they have so generously helped create, but also gets our new members out for a first pull or two. Additionally we would like to extend an invitation to all family members and alumni. Without them the current members would not know half the things we do today.

There is always plenty of time for sponsors to jump on any of the tractors and take it for a pull themselves also! We will be sending out a formal invitation with the sponsor request letter by the third week of September but we hope you can mark your calendar now. Bring out your families and friends, enjoy the company of other folks in related industries and eat some delicious pork loin cooked by the tractor team members.



*"I am excited to lead this year's X-Team, we're looking forward to testing The DeCYder to help the A-Team with their design" - Clayton Hamilton*

“After last year’s rain out, I’m really looking forward to sponsor pull. It gives our sponsors a great opportunity to check out what we do.”

- Lainey Beefink



Check us out of Facebook. Just search for Cyclone Power Pullers, and Click “Like” for updates & information

## The 2013 Cyclone Power Pullers



<b>Title</b>	<b>Officer Team Officer</b>	<b>Email</b>
President.....	Dan Killpack.....	killpack@iastate.edu
Vice President.....	Conner Toennies.....	c10yes@iastate.edu
A-Team Leader.....	Jason Herbers.....	jherbers@iastate.edu
Treasurer .....	Nick Price.....	nprice@iastate.edu
X-Team Leader.....	Clayton Hamilton.....	claytonh@iastate.edu

Please contact one of these members with any questions about design, sponsorship or anything else you may be wondering. Or email [cyclonepowerpullers@gmail.com](mailto:cyclonepowerpullers@gmail.com)  
 Check out our website at [www.cyclonepowerpullers.org](http://www.cyclonepowerpullers.org)

Thank You!

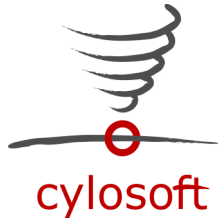
# Sponsor Recognition

## Current Full Pull Club Sponsors

QUALITY MANUFACTURING CORPORATION



## Current Cyclone Club Sponsors



JOHN DEERE



ENGINEERING STUDENT COUNCIL

## Current Gold Club Sponsors



DR. STUART BIRRELL  
THE HAIGHT FAMILY  
CNH AG INFO CENTER  
DOUGLAS DESIGN



# Current Silver Club Sponsors



GILBERT TRACTOR CLUB  
 MID-AMERICA PULLING ASSOCIATION  
 ROGER UNDERWOOD  
 HUB CITY IMPLEMENT CO.



## Support the Cyclone Power Pullers!

Our team is actively seeking new sponsors for the 2013—2014 school year. If it were not for those who support our team, we would not be able to continue participating in the annual ASABE 1/4 Scale Tractor Student Design Competition. Because of this, we recognize our supporters using the following criteria:

**Full Pull Club Sponsor:** Donations valued at greater than or equal to \$5000 will be recognized on the team display board in addition to those recognitions given to Cyclone Club Supporters.

**Cyclone Club Sponsor:** Donations valued at less than \$5000 but greater than \$1000 will be recognized on the team trailer in addition to those recognitions given to Gold Club Supporters.

**Gold Club Sponsor:** Donations valued at less than \$1000 but greater than or equal to \$500 will be recognized on the team t-shirt in addition to those recognitions given to Silver Club Supporters.

**Silver Club Sponsor:** Donations valued at less than \$500 but greater than or equal to \$100 will be recognized on the team website, in the team newsletters, and on the 2011 tractor.

**Bronze Club Sponsor:** Donations valued at less than \$100 will be recognized on our team website.

**For more information:**

[cyclonepowerpullers@gmail.com](mailto:cyclonepowerpullers@gmail.com) or [www.cyclonepowerpullers.org](http://www.cyclonepowerpullers.org)

**Team Mailing Address:**

Cyclone Power Pullers  
 Iowa State University  
 100 Davidson Hall  
 Ames, IA 50011