

OGURA



Volume 40 • Third Quarter • 2009

10 Year Anniversary

Somerset, New Jersey

This issue marks the 10th anniversary of OIC providing newsletters to its customers. Over those 10 years, a lot has happened, some of the highlights are:

1999

- Ogura receives ISO 14000
- Ogura Clutch on the cover of Design News

2000

- New engineering building opened in Japan
- New test lab opened in Japan

2001

- New production plant opened in Brazil
- New R&D facility opened in Japan
- HPPC plant opened in Michigan
- Micro clutch production goes 24/7

2002

- Mr. Ichiro Ogura passes away
- New manufacturing facility in Malaysia
- Joint manufacturing facility in China
- Ogura buys Koyo Techno in Japan

2003

- All plants achieve ISO 9001:2000
- Production makes 200th million A/C clutch
- Akabori plant reaches a level of 700,000 clutches produced per month
- Plants receive ISO/TS16949

- Automated transportation system to feed production installed in mobile plants

2004

- "TIE" program improves efficiency
- New environmental policies
- New clutch factory opened in China
- Ogura Industrial moves to new expanded facility in Somerset, NJ

- New industrial plant opened in China
- EETC adds clutch/brake test by Ogura

2005

- New brake factory opened in China
- New website created with quick reference chart drawings and pictures
- Environmental award given by RICOH
- Green supply database installed
- New handheld scanners at plants
- Green award given by Cannon

2006

- Production of Air Craft parts expanded
- Environmental award from Fuji, Xerox
- Industrial clutches/brakes meet RoHS
- Language translator added to website
- Japan department of Labor award

2007

- Land bought in Japan for new factory
- Hazardous Substance Database expanded for all substances in clutches/brakes
- Ogura buys Kyowa Precision Machine

2008

- New ORC website and new automotive racing products introduced
- Ogura Corp. receives Visteon, award
- Ogura celebrates its 70th anniversary
- 300th million A/C clutch produced
- New automated guided vehicle system

2009

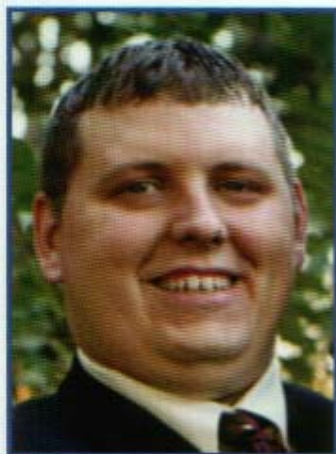
- Quality award received from Panasonic
- New manufacturing facility in Thailand
- Ogura rescue tools featured on Japanese television series



New Sales Rep. Profile

JT CHAPMAN

Houston Texas



Chad Hutchinson

My name is Chad Hutchinson with JT Chapman Company working out of the Houston Office. I was added to the Houston Territory, a little over a year ago, so Rick Henry could spend more time in Central and West Texas. I graduated from Texas A&M University with a degree in Industrial Distribution. For the last 5 1/2 years I worked

for Applied Industrial Technologies. I held positions from inside sales, outside sales and Store Manager. Life brought my wife and I back to Houston, so we could raise my 4 year old son and 1 year old daughter closer to family. In my spare time, I enjoy hunting, watching football, and spending time with family. I enjoy selling Ogura because I get involved in unique applications. ●

OIC TO SHOW OUTSIDE AT EXPO

Louisville, Kentucky

At the upcoming GIE Expo in Louisville, Kentucky October 29th – 31st, OIC, for the first time, will have an outdoor booth #6372D. The booth will have two purposes. The first will be to run the **Bobby Cleveland Racing Mower with the Ogura supercharger**. Additional racing mowers will be shown and fired up for the crowd.

The second purpose for the booth is to display customer's equipment using Ogura products. If you are planning on attending the show and you need space to show off your equipment using Ogura's products, please contact your local sales representative. ●

ENVIRONMENTAL UPDATE

Kobayashi, Japan

The Kobayashi plant used to use 1/3rd of its electricity just to run air compressors. In order to reduce electrical consumption, the plant purchased two inverter style compressors back in June of 2007. Those compressors used an air tank to hold the compressed air. In order to maintain pressure, they cycled on and off a few hundred times per day. This reduced total energy consumption from around \$18,300 to around \$8,000. This year, an additional change has brought even further savings on electricity. Since February, an Ogura air pump has been installed with a high efficiency IPM motor. Since the Ogura air pumps are very efficient, the combination of the pump and motor has drastically reduced electrical consumption. With the new system, the motor and air pump are only activated when air is needed.

With the old compressors that used to run all the time, the average electrical consumption was 33.4 kW. With the inverter type, power consumption was reduced to 14.7 kW and with the new air pump and high efficiency motor consumption has dropped to 0.9 kW. To put it in dollar terms, the old compressors in 2006 used to cost \$18,300 a year to run and the new system in 2009 costs \$500. ●



New high efficiency IPM motor and Ogura Air Pump replaces compressor system, saving money and helping the environment

Application Story

THE BEST MEDICINE

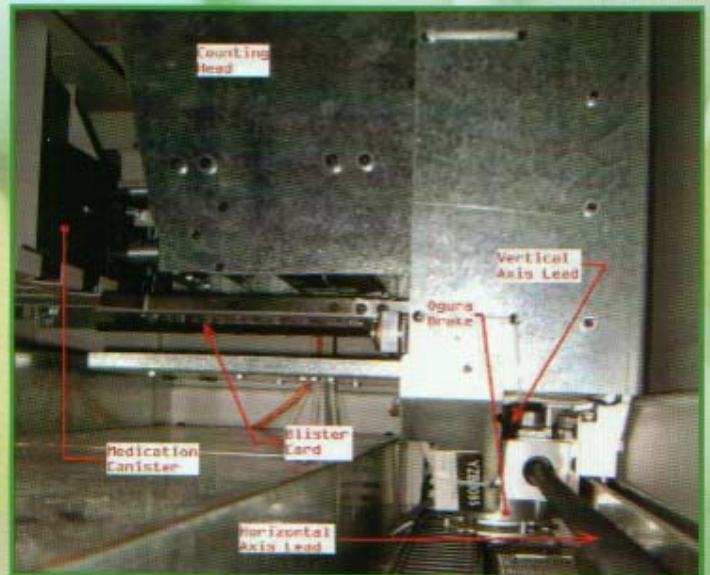
Manchac Technologies, LLC was established in 2006 in the heart of Cajun country. Now located in Alexandria, Louisiana, Manchac designs and manufactures advanced pharmacy automation products targeted at assisted living and long-term care facilities and small retail pharmacies. Exactly what is a "pharmacy automation product"? Automation in this industry is relatively new. Manual counting and dispensing of pills is sometimes a tedious and time consuming task, all the while requiring exact and error-free fulfillment of prescriptions. Automation improves the accuracy and accountability of prescription fulfillment, allowing the pharmacist to increase his or her productivity.

That's where Manchac comes in. The recently introduced DOSIS® is a machine that uses computer vision to count pills, and then package them into blister cards, not unlike those seen packaged in OTC drugs like Claritin®.



New Pill Dispenser Machine for Pharmacies

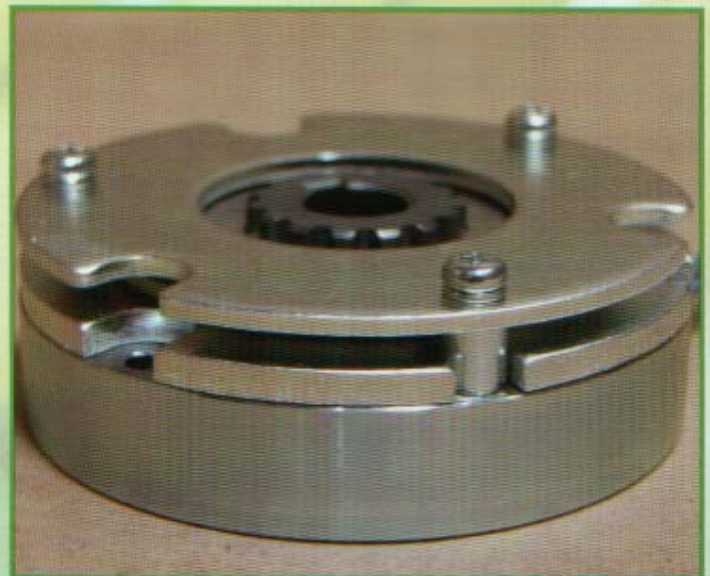
With its small footprint about (2' x 4'), it is ideal for small pharmacies where space is at a premium. Pills are manually loaded into canisters in the front of the machine. The optics scan the canisters, locating each individual medication. The pharmacy's software sends the prescription to DOSIS®, which dispenses the specific



Ogura brake on vertical axis lead screw

pills into 30 day cards, then seals and labels them. DOSIS® is capable of dispensing up to 60 prescriptions at a time. (That will definitely reduce pharmacy waiting time.)

The Ogura RNB-0.2ZG spring applied brake is an integral part of DOSIS® system. The blister cards are filled by a counting head which is brought to one of the 60 canisters via a vertical and a horizontal positioning axis system. To reduce wear and heat on the vertical axis motor, the Ogura brake is attached to the vertical lead screw to hold the counting head in position allowing the motor to be shut off. The brake also provides a "fail safe", preventing the counting head from falling in the event of power loss. Designed for holding and emergency braking, the RNB-0.2ZG is rated at 2Nm of static torque in a compact package. The zero backlash feature provides accurate positioning while eliminating any noise due to rattling. For more information on the RNB and all spring applied brakes, go to www.ogura-clutch.com. ●





In The News

BOBBY CLEVELAND FINISHES 6TH IN OVERALL STA-BIL POINTS CHALLENGE

During the course of the summer, Bobby Cleveland ran in a number of lawn mower races. In almost every race he entered, he was one of the top finishers. At the National Championship, held on September 5th in Mayville, Ohio Bobby ended up in 6th place and ended up 6th overall in the points total for the year.

In August, Bobby made a video called *The World's Fastest Lawn Mower*. Both part 1 and part 2 are posted on the US Lawnmower Racing website. <http://www.uslmra.org>. In the videos, Bobby uses the Ogura racing lawnmower to go around the Atlanta motor speedway.

You can visit with Bobby Cleveland and see his racing mowers at the upcoming Louisville GIE Expo October 29-31st at the outdoor Ogura booth #6372D. ●



Bobby Cleveland holding his 6th place trophy from the Championship Race



Chuck Miller's supercharged tractor "See it at GIE-EXPO 10/28-10/31"

FRICITION AND MAGNETISM

Ogura featured in Machine Design



The Basics of Electromagnetic Clutches and Brakes

The July 9th issue of *Machine Design* featured a section on Friction and Magnetism. Frank Flemming, President of Ogura Industrial Corp, wrote the article describing the basics of electromagnetic clutches and brakes. The article covered key selection criteria that every design engineer should follow, when considering incorporating electromagnetic clutches or brakes into their machinery. The article discussed the basic function of electromagnetic clutches and brakes and focused on how torque is

generated, how to determine how much torque is required for a specific application, and how to estimate total cycle life. If you would like to see the *Machine Design* article, please visit <http://www.machinedesign.com> or you may view the original version of the article as submitted at the Ogura website at www.ogura-clutch.com/editorials.html. ●

TOP 10 TIPS WORKING WITH CLUTCHES & BRAKES

Machine System Design

In the August issue of *Motion System Design*, Ogura was asked to provide key tips for proper clutch and brake selection. Some tips, submitted by Frank Flemming, along with pictures were used in the article along with information from other experts in the industry. ●



Ogura Tips in Motion System Design