



## PLANT EXPANSION IN CHINA COMPLETE

*Dongguan, China*

Ogura's plant in Dongguan has completed its expansion. The expansion is a single story, reinforced concrete building, which adds approxi-

mately 32,000 square feet (2,950 square meters) of production space. The expansion area has been in operation since October and significantly increases the

total annual production capacity of the plant from 1.5 million clutches to 2.5 million clutches per year. The main operations in the new area are machining pulleys and assembling armatures. Flexible work cells also increase the variety of products that can be made in this



*China plant's new building prior to completion*



*Completed building with new production machinery*

expansion, so it not only increased the base production capability but also greatly improved the efficiency of product flowing through the plant. •

## OGURA-CLUTCH.COM REDESIGNED

*Somerset, NJ*

The Ogura Industrial website has been redesigned to give it a fresher look and to make it more friendly to search engines. Product pages have been added to give a quick overview of the applications and products that Ogura supplies to each market.

The technical content on the website has not been changed. In fact, additional part numbers, pictures and drawings have been added. To make it easier for customers to submit application data, new forms have been created with many drop down menus to minimize typing and to expedite form completion. A new section "Other Ogura Companies" shows pictures, gives locations and brief descriptions of the products produced at other Ogura manufacturing facilities. •



*Ogura-clutch.com gets a new look*

As always, to stay up to date with the latest information on Ogura, check us out on Facebook.com or visit YouTube.com to see the latest videos for clutches and superchargers.

## OGURA VOLUNTEERS HELP IN DISASTER RECOVERY

*Kiryu, Japan*

**V**olunteers from Ogura have participated in disaster recovery relief in the area devastated by the earthquake and tsunami. The program was organized by the Kiryu Disaster Recovery Support Volunteer Center, founded primarily by the Kiryu Social Welfare Council. Ogura volunteers spent Sundays in the summer helping the towns affected clean up drainage ditches and remove the wreckage of the buildings damaged by the disaster. ●



*Ogura  
volunteer  
stands on  
drainage ditch  
full of debris*

## IT'S OFFICIAL

*Kiryu, Japan*

**O**gura Japan has received certification in their quality management system for the aerospace industry. This certification is for Ogura's plant number 1 in Kiryu, which primarily makes industrial clutches and brakes. This certification will go a long way in helping Ogura to obtain additional aviation precision component business. ●



*JISQ9001;2009 Certification*

## OGURA JAPAN ENDS SUMMER TIME SHIFT FROM TSUNAMI

*Kiryu, Japan*

**D**ue to the damage to the Fukushima power plant, redistribution of energy was needed in northern Japan for the summer. Many manufacturing facilities were required to go from a traditional Monday through Friday work week to a Saturday to Wednesday work week. This shift in power requirements from industry, combined with a voluntary conservation effort from consumers throughout northern Japan, allowed for significantly lower energy consumption.

At the beginning of October, the energy requirements from the peak summer season were over and a normal work week resumed for all manufacturing facilities. ●

## OGURA INDUSTRIAL GETS A NEW SIGN

*Somerset, NJ*

**F**or years, Ogura and Kanematsu shared a building with the cable company, Comcast. Earlier this year, Comcast moved out and Ogura and Kanematsu have taken over as primary tenants. The old Comcast sign was taken down and new signs were erected on the outside of the building. ●



*Ogura and Kanematsu personnel in front of new signs*

# HAZARDOUS SITUATIONS REQUIRE A DEPENDABLE BRAKE

**T**oday, we live in a dangerous world. Terrorism is real and a part of our everyday lives. We hear and see reports almost on a daily basis, yet there are probably dozens of other thwarted terrorism attempts that we will never hear of. Among the hundreds of entities devoted to avoiding disaster, a company in Tennessee stands out.

Remotec, a subsidiary of Northrop Grumman Corporation, manufactures a fleet of unmanned hazardous duty vehicles, called ANDROS. There are 5 unique robots in the fleet and are comparable in size from a child's wagon all the way up to a skid-steer loader. Designed primarily for EOD (Explosive Ordinance Disposal), the line-



*Andros robot*

up is also available for Hazmat, tactical and CBRNE (chemical, biological, radiological, nuclear and high-yield explosive) uses. You may have seen the HD-1, the smallest of the fleet, in the opening scene of the Academy Award-

winning film "The Hurt

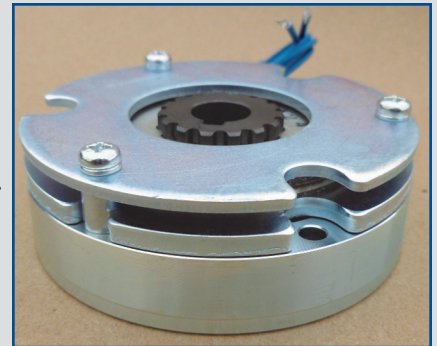
Locker" or possibly delivering the game ball in the 2010 Military Bowl. Coincidentally, the ANDROS robots were the inspiration for the main character in the Walt Disney Pixar film "Wall-E®".

OIC is honored to supply (4) brakes on the ANDROS HD Series, the successor to the HD-1. The most versatile and lightweight robot in the fleet, the HD features (3) cameras, including a pan/tilt surveillance camera with a 216:1 zoom and can travel up to 4.3 miles per hour. Weighing in at 40 lbs., it can maneuver through mud, snow and sand, and through openings as small as 26" wide, and over obstacles 8" tall. The robotic

"hand" or gripper can open to 6" and raise to a height of 6 feet, as well as having the capability to reach beneath automobiles. It can lift up to 30 lbs. at full 6 foot extension.

When searching for a brake to reliably perform the demanding functions of the arm axes, Remotec chose the Ogura RNB. Holding the shoulder, elbow and wrist joints accurately in place with 18 in. lb. of torque, the Ogura power-off brake is the perfect choice for a small envelope because of its low profile. The long-life friction material provides thousands of holding cycles. Since braking force is produced via springs, fluctuations in voltage and temperature have no effect on the brake.

*The Ogura RNB brake is primarily a holding brake but will accommodate emergency stops. When the coil is energized, the magnetic field attracts a pressure plate compressing springs within the coil housing. This allows the friction disc/hub that is attached to the motor shaft to spin freely. When power is intentionally cut or accidentally lost, the magnetic field degrades quickly allowing the springs to push on the pressure plate squeezing the friction disc between the pressure plate and the outer housing, clamping it in place. Many sizes are available to handle different torque requirements.*



*Ogura RNB brake*

As Mike Knopp, President of Remotec recently stated, "(Our customer's) continued confidence in Remotec's Andros platforms is testament to the experience and praise of those in the field who use them, the performance and reliability of the equipment, and the people of Remotec who stand behind them." Ogura is proud to be an integral part of that equipment.

To learn more about the RNB Series, as well as other Ogura clutches and brakes, please visit our website at

[www.ogura-clutch.com](http://www.ogura-clutch.com) ●



*Happy Holidays from the Staff of Ogura Industrial*

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## In The News

### OGURA EXHIBITS AT 2011 GIE SHOW

*Louisville, KY*

Ogura Industrial showed off its PTO clutch/brake, electric clutches and superchargers at the GIE show at the end of October. Ogura had both an inside and outside booth presence at the show. Inside there were samples of various PTO clutch/brakes and a cutaway to show customers how the internal components in the clutch/brake worked. Also on display was a cutaway of a supercharger but the real attraction for the superchargers was outside.



*Ogura personnel and sales reps ready to support customers*

At the outside booth, Bobby Cleveland and Chuck Miller made multiple appearances during the show to show off their supercharged mower and supercharged mini tractor puller. When either unit was started, it attracted an immediate crowd.



*Chuck Miller's mini tractor-puller*

his past and current lawn mower racing as well as many questions on his custom built supercharged mini puller.

As in years past, the show provides an opportunity for landscapers and dealers to ask direct questions about PTO clutch/brakes. This year was no exception with the customers coming away with a better understanding of why Ogura products can outperform competitors' units.●



*Bobby Cleveland's Ogura supercharged mower*

### OGURA PRESENTS AT THE 2011 FUEL CELL SEMINAR

*Orlando, Florida*

Last quarter, Ogura was chosen to be one of the companies presenting their findings on innovative fuel cell components at the 2011 Fuel Cell Seminar and Exhibition. The exhibition area had over 60 fuel cell related companies showing products and/or services and over 120 presentations showing the latest innovations in fuel cells were presented over a three day period. To see how the Ogura hydrogen pump can improve efficiencies in fuel cell applications, the complete PowerPoint presentation can be found at [www.fuelcellseminar.com/media/9438/dem43b-4%20blaszczyk.pdf](http://www.fuelcellseminar.com/media/9438/dem43b-4%20blaszczyk.pdf).●



*Ogura Presentation at the 2011 Fuel Cell Seminar*