



OGURA EXPANDS PRODUCTION IN THAILAND

Rayong Prefecture, Thailand

Ogura recently completed the construction of an additional facility at the Ogura Thailand campus. Ogura Clutch Thailand was established in July of 2008 and production was transferred from Ogura Clutch Malaysia in August of 2009. The purpose of this new facility is to increase production capacity of its field core shells. The new building is a single story reinforced concrete structure containing approximately 30,000 sq. feet. The primary operations of this facility will be phosphate conversion coating of the forging blanks, shaving of the field core blanks, stamping, piercing, field core machining, coil assembly, epoxy coating, and final testing.

In order to localize the field core production, an 80 ton press was transferred from Ogura Corporation in the US to do the shaving process. For the forging press operation, a 630 ton press was also transferred from Ogura Corporation in the US. This concentration of the field core shell construction will free up additional manufacturing space in the main facility which will help increase production capacity and also help with part flow. (A future announcement will be made regarding additional products to be assembled at this location.) •



New Thailand facility



New washing line



630 ton forging press

OGURA'S ISO 140001 REGISTRY RECERTIFIED

Kiryu, Japan

Last quarter, Lloyd's Register (LRQA) conducted the audit/renewal of ISO 14001:2004. The audit took place over four days and the two auditors from Lloyd reviewed all departments and all four manufacturing plants in the Kiryu area. The audit was done mostly by sampling. There were no significant noncompliance issues or even light noncompliance issues, so all Ogura facilities were easily certified. Two suggestions were made to Ogura. First, that the environmental impact chart should be modified showing that goals should be set by identifying the degree of potential impact on the environment. Second, under environmental performance, the usage of resources, such as electricity, should be controlled with indexes such as waste and/or ineffective distribution. •

SUPPLIER QUALITY CONFERENCE HELD

Kiryu, Japan

Last quarter, 29 suppliers were invited to Ogura's Supplier Quality Conference with the overall goal of total quality improvement of suppliers and their relationship to Ogura's quality targets. Ogura has seven key quality tools and in the previous supplier conference, four of those seven tools were discussed and reviewed in detail. This meeting revolved more around the charting and documentation control versus the actual quality requirements that were discussed at the prior meeting. Ogura wants suppliers not only to improve on quality, but then to maintain that improved level. One of the suppliers in attendance said it best in his closing comment, "I see that quality control is not only just about improving, but is also about maintaining." •

Ogura Sales Rep Profile

MARCIO TOSHIO TANAKA *Okster Solutions*

Hi! Hi my name is Marcio Toshio Tanaka. I was born in Brazil and grew up/live in Sao Paulo City, Brazil (20 million people live in the metropolitan area), and I am of Japanese descent.



Marcio Toshio Tanaka

I graduated in Material Science Engineering from the University of Sao Paulo and worked in Consulting and Industries. It was only in recent years, when I had time for postgraduate studies, in Master of Materials Process Engineering, that I realized that entrepreneur activity (working by myself) was the correct choice for me.

In my free time, I enjoy nature, the forest and visiting the beach during holidays. I also love watching a good soccer match, Brazil's passion. The rest of the time I am dedicated to my company. This has been an exciting venture for me.

Okster Solutions has been in business since 2009, committed to developing the industrial market following Brazil's major effort to enlarge local industry capability. Initially, we started with a focus on the oil and gas market by supplying to OEM's and end users. As one thing led to another, we were lucky to grow and participate in other industrial markets. I am grateful for this tremendous challenge. In August 2013, we partnered with Ogura Industrial Corporation as a sales representative. ●

OGURA FIRE AND SAFETY PRODUCTS EXHIBITED IN TOKYO

Tokyo, Japan

Ogura exhibited its fire and safety products at the Tokyo International Fire and Safety Exposition. Over 120,000 people attended this show over four days. This particular show is a spinoff of the general exhibition sponsored by the Tokyo Fire Department, however, it is designed more along the lines of fire safety.



Ogura fire and safety products on display at the Tokyo International Fire and Safety Exposition

Ogura exhibited its full body harness and electrohydraulic multi-cutters. For the multi-cutters, Ogura had a live demonstration of the cutters in action and this attracted quite a bit of attention from show visitors. Ogura also exhibited its hose washing and drying machines which was a particular interest to small volunteer fire companies that lack personnel to do routine maintenance. ●

WE HAVE HAD ENOUGH SNOW!

Somerset, NJ

We have had more snow than we can deal with this year. There has been so much snow that maintenance ran out of space trying to plow and/or shovel.

Even with the bad weather this year, OIC only lost one work day. *We cannot wait for Spring!* ●



Too much snow at OIC's front door

Application Story

Ogura Clutch Helps Deliver High Performance Hydraulics on European Trucks

H ydraulic Clutch Pumps are getting more popular on commercial vehicles in areas outside of North America. There are advantages and benefits of having a truck equipped with a hydraulic pump kit. Benefits of using a clutch pump kit vs. a PTO drive are both noise reduction and fuel savings (which corresponds directly with CO2 reduction). The new small size high pressure pumps can easily be attached to the belt drive of an engine. In some situations, depending upon pump types and dimensions, it is not always possible to access the PTO connection and the advantage with the clutch pump kit is that it can overcome this installation problem.

Common applications for these clutch pumps are cranes, car carriers, wreckers, dump trucks, construction vehicles and as a power source for hydraulic driven power tools. In these applications, hydraulic power is generated by the flip of a switch at any time regardless of what gear is used or engine speed.

An Ogura high torque, 12VDC mobile clutch with 108 Nm (80 ft.lb.) torque and 134 mm diameter-eight groove serpentine pulley was chosen by an Italian pump kit manufacturer, called A.E.C., to meet their high torque and small size requirements.

A.E.C. was able to design a pump kit with an Ogura clutch which fits into the engine compartment of the Iveco dump truck. Since the small, high performance pump cannot directly take the side load of the engine belt force, AEC designed a bearing mounted support bracket, so all load is transferred into the bracket so no load goes to the pump shaft.



New pump kit with Ogura clutch

A.E.C. stands for "Auto Equipment Center". The company was founded in the early 1980's and is based in

Forlimpopoli (FC) / Italy.

Mr. Mariani, the owner of A.E.C., is very proud to offer a wide range of clutch pump kits suitable

for all different kind of commercial vehicles in Europe.

Ogura mobile clutches range in size from 78 to 2.033 Nm (58-1,500 ft.lb.) and feature numerous pulley configurations including v-belt and poly-v as well as universal hub mounts. In general, the user can choose from a straight, splined or tapered bore to match the corresponding pump shaft or shaft adapter. Ogura mobile clutches are available with 12 and 24 VDC.

These models of Ogura clutches were primarily designed for truck air conditioning compressors, but now are also used as clutches for hydraulic pumps (clutch pump), water pump clutches, electro-magnetic fan clutches and clutches for vacuum pumps.

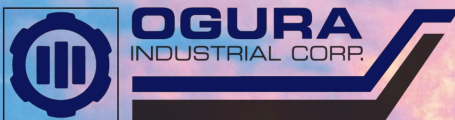
Ogura worked successfully with the Italian company AEC and new clutch projects with other power supply requirements are ongoing. AEC is working very close with the truck and engine manufacturers to get all required information to design the best pump kit solution for each vehicle brand.

Ogura's reputation for high quality electric clutches made it the supplier of choice because reliability and dependability are not only options, but are the expectations from A.E.C.

You are invited to see the entire clutch pump kits from A.E.C. at the famous "Internationale Automobil-Ausstellung" (IAA International Motor Show) in Hannover, Germany from September 25th through October 2nd. For more information, visit <http://www.iaa.de/en/> •



Iveco 4x4 3L dump truck



Happy Spring from the Staff of Ogura

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Ogura in the News

CHUCK MILLER WINS WINTER CHAMPIONSHIP PULL

Ohio

On January 9th, the 35th Annual Columbus Winter Championship Pull was held at Ohio State Fairgrounds. There were over 250 participants in the races that were held over a two day period. Chuck won his division and



The Ogura machine's winning race

this win makes three wins out of the last four years. Chuck has now set his sights on

the upcoming 2014 lawnmower racing schedule and will once again be driving his Ogura blue machine. ●



Chuck Miller's 1st place plaque

OGURA EXHIBITS AT TOKYO AUTO SALON

Tokyo, Japan

At the 2014 Tokyo Auto Salon, Ogura exhibited a wide range of its products, everything from superchargers to lightweight flywheels. This year's show emphasized new products from Ogura, primarily aimed at the Toyota 86 and the Subaru BRZ cars. The new products were a 400 series lightweight clutch with integral dampener for the Toyota 86/Subaru BRZ, a single disc clutch for the Mazda Road Star NC, a lightweight clutch for the Mazda Road Star NC and a 400 series lightweight clutch for the BMW M3/318i.

The new products attracted the attention of many visitors as Ogura continues to expand its product range for high performance vehicles.

At the booth, Ogura also exhibited a fully decked out racecar for the "Inter Proto Series". The car, nicknamed Kuruma, was created to attract the attention of the motor sports fans at the show. Besides the car, Ogura also hosted a talk show at its booth featuring Mr. Masanori Sekiya as a guest. Mr. Sekiya is the first Japanese racer ever to win the 24 hours of Le Mans. He is currently the head of the Super Tom's Race Team. To the delight of the fans in attendance, he answered many questions on both his past races and the future of motor sports. ●



2014 Tokyo Auto Salon



Mr. Sekiya answers racing questions in front of "Kuruma"