

OGURA CLUTCH INDIA BEGINS PRODUCTION

Republic of India

n February 2016, Ogura Clutch India PVD. LTD. started production in the Republic of India Haryana Gurgaon Manet Searle Industrial Park. The plant will be producing car air conditioning compressor clutches. This will be the sixth country where Ogura is producing clutches and brakes. The previous five are Japan, United States, France, China, and Thailand. The plant will primarily provide localized production for the fast growing Indian automotive industry, but also has plans to produce other types of clutches and brakes in the future. The plant site is approximately one acre and the existing building is 13,000 sq. ft. employing 28 people.



Ogura Clutch India

TOKYO AUTO SALON 2016

Tokyo, Japan

gura exhibited at the Tokyo Auto Salon 2016 held at Makuhari Messe January 15th-17th. Ogura showcased the family of racing clutches it has developed and a new clutch for motorcycles, named the "slipper clutch". The technologies that Ogura has developed for racing clutches for four wheel vehicles are now being applied to motorcycles.

The Kawasaki motorcycle ZX6R, equipped with slipper clutch, and the Inter Proto Series vehicle Kuruma, equipped with an Ogura racing clutch, attracted the interest of many attendees.

A talk show was held at the Ogura booth. The guests were Inter Proto



Kawasaki motorcycle equipped with new Ogura slipper clutch

Series producer Mr. Sekiya, and two racing drivers, Mr. Nakayama and Mr. Hirakawa. When Mr. Iwasaki from All Japan Road Race Championship took the stage, he talked about the new racing clutches in motorcycles which fired up the audience.

Video images from the The TRD Rally Challenge were shown at the talk show. The Ogura sponsored team finished in 3rd place in overall points in 2015.•

NEW INTRO VIDEO ADDED TO OGURA WEBSITE

Somerset, NJ

o help efficiently relay information about the Ogura group of companies and Ogura Industrial, a short three minute video has been created. The video shows Ogura's major markets, manufacturing capabilities and quality conformance. Pictures and short video segments explain how Ogura Industrial Corporation supports customer needs for product design and purchasing support.•



Screen shot from new Ogura video

Ogura Sales Rep Profiles

Magnus Larsson Cumatix

y name is Magnus Larsson and I joined Cumatix in April of 2015. In my work as an Account Manager/Sales Engineer at Cumatix, it is my job to cover the brake and clutch market in Scandinavia, representing Ogura.



Magnus Larsson

I am also responsible for sales of

servomotors and other servo components from another Japanese company.

Before joining Cumatix, I worked in technical sales for almost seven years, selling products like slip rings, rotary unions, scientific and low light level cameras and other niche products to OEM companies in Scandinavia.

I spend most of my spare time with my family and friends. I also enjoy keeping myself up to date with world, business and technology news and when there is nice weather, I enjoy time on my road bike.

I look forward to working together with all the people at Ogura and selling Ogura products.

I think there is a wide variety of applications in the Scandinavian countries where Ogura products are attractive.

David Rousch NorthEast Technology

y name is David Roush and I represent Ogura for Eastern Canada. I graduated from NCE, now NJIT, in Newark, NJ with a degree in Mechanical Engineering. While attending night school, I had a used car business and did virtually all repairs myself. My



David Rousch

first job after graduating from NCE was with Bendix Corporation in the aerospace industry with missile and aircraft controls. After that, I joined Volvo Hydraulics in sales, marketing, and applications. When the Volvo products were taken over by Sundstrand, I started my own business as an independent representative. Over the past 25 years, I have represented various lines to include pumps, motors, valves, flow meters, wheel motors, hydraulic hose accessories, heat exchangers, bushings for hydraulic cylinders, and drive line components. Responsibilities include sales directly to OEMs, support and training to industrial and mobile distributors, and setting up, plus working exhibitions in Germany at the Hannover Fair, and also in the US to support the companies I represent.

My hobbies include photography, working on cars, home improvements, and maintaining a killer lawn. I am married with two children (boys) and four grandchildren (all boys).

OGURA TO SPONSOR MOTORCYCLE RACING

Kiryu, Japan

n February 13th,the well-known professional motorcycle racer, Mr. Iwasaki announced that Ogura Clutch was becoming part of his Power Builder team. He held a press conference in Kiryu and made the announcement that the new team, which now includes Ogura, will participate in the 2016 Japan Road Race Championships in the J-GP2 class.

Ogura is now making racing clutches for motorcycles and is Mr. Iwasaki's primary sponsor. Ogura is excited to participate in Japan's most reputable motorcycle road race. Ogura is using experience developed from the car racing business over the years to advance its motorcycle racing clutch designs.•



Ogura Clutch is proud to sponsor motorcyle racing

Application Story

OGURA PHT KEEPS TENSION UNDER CONTROL

e all hear in the media that more and more products are going wireless, giving the impression that

the need for electrical wire is becoming less common. Although control wiring via blue tooth reduces the need for control wiring, the fact is that the requirement for magnet wire is continuing to grow worldwide.

Electricity flowing through magnet wire takes electrical current and changes it into mechanical movement. Magnet wire is used in applications where a magnetic field needs to be generated to cause movements such as electromagnetic clutch or brake, in the windings of motors, as coils in solenoids and relays in industrial and automotive applications.

Wire sizes can be smaller than a human hair or as large as a cable for a bridge. To help control wire tension on the mid to thin wire sizes, customers use Ogura's PHT (permanent hysteresis tensioner). Torque range on the PHT series runs from 0.005 in lbs to 62 in lbs. The PHTs are

primarily used in controlling wire sizes 44 through 10 gauge.

In most applications, a PHT is mounted to a frame with the spool of wire directly underneath the

PHT unit. A pulley is then attached to the PHT's shaft and the wire is wrapped a few times around the pulley. As the wire is pulled from the PHT, the PHT applies the proper tension for the application.

The PHT is a permanent magnetic unit, so there is no frictional contact between the rotating plate and the magnet. All drag torque is accomplished magnetically. Also, since the PHT unit uses permanent magnets, no external electrical controls are needed.

The PHT operates by having two multiple pole permanent



Minimum torque



Maximum torque

magnets mounted inside the unit with an air gap between both magnets. A hysteresis plate is connected directly to the PHT's output hub or shaft and

equally spaced between the two magnets. As the hysteresis disc rotates between the two permanent magnets, the magnetic lines of flux act upon the hysteresis disc. Each PHT unit is mechanically adjustable. So, by shifting the position of the alignment of the poles, you can control the amount of magnetic drag on the disc.

Since there are no wear particles from the PHT unit, it cannot contaminate the wire or any of the surrounding machinery like other drag brake devices that contain friction material. Also, since the units do not require a separate control, they consume no electricity, so there is no ongoing electrical operating cost.

Paper, film and foil are products where the PHT is used to control tension, but another popular application for the PHT is as a torque limiting device. A high precision screwdriver or screw cap tightener for medical or food industry packaging are also well suited for PHTs.



Wire unwind stand





Happy Spring from the Staff of Ogura

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Ogura in the News

OGURA EXHIBITS AT INTERNATIONAL ROBOT EXHIBITION

Tokyo, Japan

gura exhibited at International Robot Exhibition (IREX) 2015 for the first time Wednesday, December 2nd through Saturday, December 5th at Tokyo Big Sight. Ogura showcased its various clutches and brakes, and particularly, the wide size range of the spring actuated brake series. The demonstration machine for the newly developed grip sensor attracted the interests of many of the attendees.



Ogura displays holding brakes and hysteresis clutches used in robotics

Ogura also exchanged information with many people in the robotics industry, which was stimulating and worthwhile. The exhibition was a great success.



OGURA FEATURED IN DESIGN WORLD

Somerset, NJ

n the January 2016 issue of Design World Magazine, Ogura was featured in the Leadership in Engineering section. The page gave a short profile of Ogura Industrial Corp. and additional background into the major markets that Ogura Industrial serves in North America.•



Ogura Industrial's profile

n the March issue of Design World Magazine and Design World online, Ogura contributed to an article regarding the trends in electromagnetic clutches and brakes. Ogura commented about the growth in holding brake applications due to the increased use of servo motors and robotics in manufacturing. Ogura also commented about the need for smaller but higher performing products and showed the new thin line of holding brakes as well as the micro clutches that are used in office automation for paper

handling applications. The article also discussed how more product qualification is being driven to suppliers like Ogura. Reduced engineering staff at many OEMs means that suppliers are becoming more integrated with the OEMs design team to make sure the right product is chosen from the start.•



Motion trends article