OGURA
"What you need in a clutch"®
ON THE MOVE
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# OGURA IMPROVES SAFETY FOR LOCAL RESIDENTS

*Kiryu, Japan*

Ogura's Plant No.1 in Kiryu, Japan is the oldest manufacturing facility and is located in a combination residential/commercial zone. Surrounding neighbors line up their trash on Ogura's sidewalk on a weekly basis for pickup. Although convenient for surrounding neighbors, the bags can cause a hazard to people trying to get by on the sidewalk, and for kids going to and coming from school.

To help alleviate this congestion, Ogura removed some trees and made a cutout in the wall where local residents can put their weekly trash without cluttering the sidewalk.●

*Before: cluttered sidewalks*

*After: new cutout for trash and spacious sidewalks*

# OGURA'S REINFORCED CLUTCH IS ADOPTED BY TOYOTA FOR GR

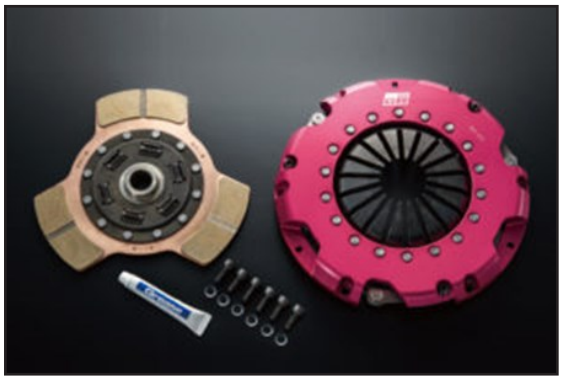
*Tokyo, Japan*

The reinforced metal clutch and clutch cover set developed by Ogura has been adopted as an option for the GR Yaris which was newly released by Toyota Motor Corporation on September 4th, 2020.

Since 1998, Ogura has been developing, manufacturing, and selling carbon fiber reinforced clutches for racing vehicles and tuning vehicles under the name of ORC (Ogura Racing Clutch). This technology and experience has been recognized by Toyota Motor Corporation and led to OEM adoption.

From September 4th to 6th, the opening NAPAC Fuji SUPER TEC 24 hours Race of the Pirelli Super Taikyu Series 2020 was held at Fuji Speedway.

GR Yaris (team name: ROOKIE Racing) which participated in this 24-hours race used a reinforced metal clutch & clutch cover set, and it achieved the 1st place in both, the qualifying and finals. The durability and reliability of the clutch has been proved over the harsh 24 hours race.●



*New carbon fiber clutch for Toyota*

# Ogura Employee Profile

## LOUISA KINOSHITA
### Accounting Assistant

*Louisa Kinoshita*

Hi, my name is Louisa Kinoshita and I joined Ogura team as a Japanese-English translator in October 2017. There were certainly many new things for me to learn and still there are, but I do not feel any stress because everybody in Ogura is very supportive.

More recently, I was taking over the responsibilities of Robyn, the executive secretary, while she is on maternity leave, but longer term I am going to move into the position of the Accounting Assistant.

I am originally from Ukraine where I graduated from Kiev State Linguistic University with MA degree in Japanese and English languages. For people wondering why I have Japanese last name; it is because I am married to a Japanese man since 2003. We met in Ukraine, got married in Japan, lived in Tokyo for 2 years and moved to the US in 2005. We have two daughters, 16 and 11 years old. We try to keep them trilingual (English, Japanese and Russian) and they have been doing very well so far.

My days are pretty much occupied but when I have a spare time, I like to watch TV, go to the movies, travel, and do home improvement projects.

I am ready for the new challenges and look forward to working with you all!●

# DOUBLE WIN IN SUPER TAIKYU FUJI 24-HOURS DEBUT RACE

*Fuji Speedway, Oyama , Japan*

On September 5th and 6th, 2020, the opening NAPAC Fuji SUPER TEC 24 Hours Race of the Pirelli Super Taikyu Series 2020 was held at Fuji Speedway.

*24 hour road race*

Ogura's president, Mr. Yasuhiro Ogura, participated as a driver. The racing team was called "ROOKIE Racing". Toyota Motors Corporation's president, Mr. Toyoda also participated as a member on the team. The "ROOKIE Racing" team had two cars in the race, GR Yaris and GR Supra. Mr. Ogura was behind the steering wheel of GR Supra and performed a solid run for the team.


*Winning team members*

This year because of the COVID pandemic, the race was moved to early September. A typhoon was just leaving Japan around that time, so the first part of the race was very severe with red flags suspending driving for nearly four hours. By the end of the race, the sun was out with temperatures approaching 95 degrees.

Even though it was the debut for both cars, each won first place in their class qualifying run for pole position. Then, went on to take the first place in the finals after a hot 24 hour battle. ●

# OGURA CANCELS PARTICIPATION IN TOKYO AUTO SALON 2020

*Tokyo, Japan*

Ogura Japan has decided not to exhibit at "TOKYO AUTO SALON 2021" scheduled for January 15th - 17th, 2021.

The number of people infected with the new coronavirus remains highly unpredictable. Ogura came to this decision because priority must be given to the safety of employees, their families, and related parties. We look forward to our participation in next year's show.

Ogura will continue developing aftermarket, including motor sports, and hope that all the customers who have been visiting Ogura's booth and cooperating with us, will continue to support Ogura (ORC, ARUGOS).●

# THIS MACHINE BLOWS HULLS!

The retail nursery industry is very competitive and depends on quality product. If you've ever been to a Lowe's "bargain bin" plant section, you'll understand. A significant amount of those sad, drooping plants marked at $3.00 just don't last very long in small containers.

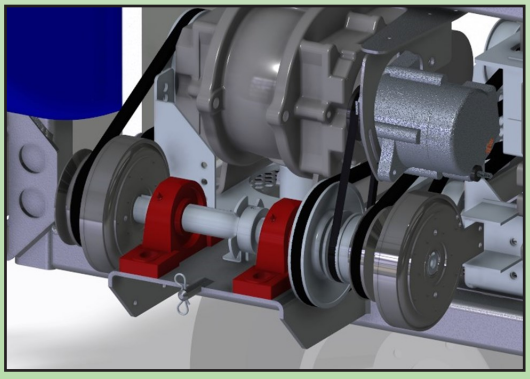
With that in mind, Tom Knuth decided to do something about it. A former Design Engineer for John Deere, Tom has a plethora of knowledge of the Ag industry, gaining a patent on Deere's Quik Knect PTO drive system, which won an AE50 award in 2020 for agricultural product innovation. In his new career, Tom found shortcomings in how wholesale nursery growers were mulching container.

Enter the company StiltPro. Parlaying his experience in ag, he designed a machine to top dress the containers in the field (at the grower's location), allowing for more expedient application of the rice hulls while reducing herbicide usage and allowing use of chemical free weed protection.

*Worker blowing rice hulls at nursery*

His design – the rice hull blower. The machine feeds rice husks from a hopper through a flexible hose and allows dispensing to a precise location, in this case typically a 3-gallon container. The hulls are fed through a rotary airlock. As the veins in the airlock rotate, the hulls are carried to the bottom of the airlock and fall into a pressurized air stream. A diffuser at the end of the hose slows the flow of the hulls so they fall into the container rather than blowing them out at a high rate of speed.

During the design process, Tom needed a way to regulate both the feeding of the hulls to the airlock and controlling the blower independently. The dispensing requires stopping and starting frequently when operating the machine, and an electric clutch specifically offers the advantage of integrating nicely with a control system. It allows for a reliable method of turning the system on and off via a remote or pushbutton. Tom came to Ogura with clear specifications for the system. After careful evaluation, the General Purpose clutch MA-7FS1 was chosen to complete both tasks. Mounted on an independent bearing mounted shaft, the first clutch receives its input from the main drive and transfers power through a pulley to the airlock, turning the feed system on and off. The clutch shaft, while still rotating, allows for independent control of the air blower with a second FS1 mounted at the other end. Tom attributes the successful implementation of the design toward attention to detail. He said, "Ogura provided clear documentation of the product offering with enough detail to understand the capabilities of the product". "Ogura was also helpful in the development, and willing to work with a smaller company not necessarily buying truckloads of product." With the first number of machines now working in the fields, it is likely that StiltPro may not be a "smaller company" for long.



*Ogura clutch controlling air flow*

For more on the innovative Rice Hull Blower and StiltPro, visit www.stiltpro.com.

To learn more about the Ogura General Purpose line of clutches and our complete line of electromagnetic clutches and brakes, visit www.ogura-clutch.com. •

OGURA INDUSTRIAL CORP.

## Happy Holidays from the Staff of Ogura

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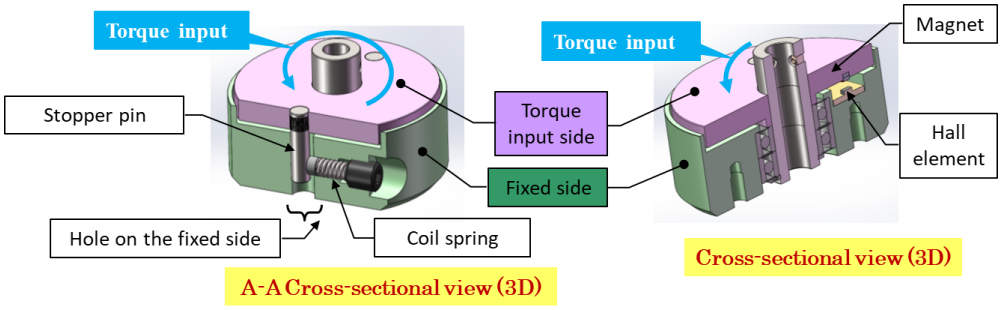
## Ogura in the News

# OGURA RELEASES A NEW PRODUCT LINE: DQH TORQUE SENSORS

*Kiryu, Japan*

With the ever increasing market for robotics, there is an expanding need for accurate torque sensors. Ogura has developed three different torque sensors based on 0.25, 0.5 and 1 Nm of torque. Torque output characteristics are linear with respect to input torque. There is a built-in mechanical stopper that helps the sensor withstand excessive torque loads. Sensors are available in either left or right rotations and the torque detection mechanism is non-contact, therefore there is no wear on torque detection parts.●




A-A Cross-sectional view (3D)

Cross-sectional view (3D)

# CHUCK PULLS IT THROUGH THE FALL

*New Weston, OH*

With the balance of the lawnmower season cancelled, Chuck has started up his mini-puller competition. His mini-puller (pictured) is the same one that he exhibits at the GIE Expo each year. It is a special single cylinder supercharged, custom made engine that Chuck has had great success over the past few years. Chuck has won some competitions, and come very close in others. In one of the competitions, he would have won the finals but he just touched the side line so he was disqualified.

*Chuck Miller and his tractor puller*

Chuck can't wait to get back into lawnmower racing in the late Spring next year.●

# EXPANSION OF LINEUP OF HYSTERESIS CLUTCH & BRAKE HC/HB SERIES

A new size has been added to the HC / HB series of hysteresis clutches and brakes, which have been well received for their high-precision torque control. Three new models, high torque type HC20 type (rated torque 2.0Nm), HB20 type (rated torque 2.0Nm), and HB40 type (rated torque 4.0Nm) have been released to meet a wider range of customer requests.●


*New high torque hysteresis brakes*