



KIRYU BASEBALL FIELD IS NOW OGURA CLUTCH STADIUM

Kiryu, Japan

Ogura has contracted with the city of Kiryu to have the local

baseball stadium re-named to Ogura Clutch Stadium.

Ogura will be the primary sponsor for the local baseball stadium and this sponsorship will run from March 1st, 2021 to February 29th, 2024. Baseball has always been very popular in Kiryu. One of Kiryu's nicknames is the "City of Baseball." One of the local high schools won the All-Japan High School Baseball Tournament, and five out of the seven high schools in the Kiryu area have advanced to the finals at least once over the years.

This sponsorship helps to support the local community. Kiryu is the town of Ogura's head office and main industrial manufacturing facilities and most of the workers in the Ogura plants and the plants outside of town, reside in Kiryu.●



Ogura Clutch Stadium



Baseball tournament at Ogura Clutch Stadium

OGURA CLUTCH INSTALLED IN WORLD'S FIRST HYDROGEN RACE CAR

Tokyo, Japan

The world's first hydrogen engine from the team "Rookie Racing" was used at the "NAPAC Fuji Super Tec 24 Hour Race" held at Fuji Speedway from May 21st-22nd.

The race vehicle is a modified Corolla Sport which burns compressed hydrogen to power a turbo-charged 1.6 liter in-line three cylinder engine.

The car had to pit 35 times during its time on the track and since it took around seven minutes to replenish the hydrogen each time, it was not one of the top finishers in the race. However, Toyota wanted to use motor sports to promote hydrogen as an alternative to electric cars. Mr. Toyota "Morizo", President of Toyota Motor Corporation, took the wheel for a portion of the race to further promote the hydrogen engine.



ORC Rookie Corolla with ORC Clutch

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Ogura Sales Rep Profile

Jose Luis Lopez
Latam Business Representations (LBR)

Hello, my name is Jose Luis Lopez. I've been a rep for Ogura since 2018 but have signed a new agreement with OIC and my new employer, Latam Business Representations (LBR). I will be the manager of Ogura activities for LBR. We look forward to continued growth and success!



Jose Luis Lopez

I am married and have one daughter. We love to barbeque on weekends, cook very good steaks and spend time together as a family. I like hiking, outdoor sports, and taking my jeep around the Monterrey area which is surrounded by mountains and the perfect place for these activities. We love spending time in Cancun, the most beautiful beach in Mexico, where you can spend a good time and relax.

LBR was born when three companies, leaders in their fields, in Supply Chain, International Business Development and Real State, decided to join. There is lots of growth potential in the country with the world's 13th largest GDP of \$1.26 trillion. LBR fills the gap for foreign companies to ensure a successful and sustainable business for its customers in the country. With over 20 years of experience, we have a network in all industries. We can shorten the time for our principals to get their product known and recognized by potential customers. We are very proud at what we can do for our principals as we are confident that with our experience and network in the region, in combination with world class companies that we represent, we will bring extraordinary results.●

HYDROGEN RACE CAR (CONTINUED)

Tokyo, Japan

The Corolla Sport was fitted with the Ogura carbon fiber reinforced GR clutch. This is the same clutch that has been adopted by Toyota for some OEM vehicles and was also used in the GR Yaris in last year's Fuji 24 Hour Race, that helped win the championship.



Ogura GR Carbon Reinforced Clutch

It is a great honor to be involved in this historic vehicle with the world's first hydrogen race engine. Ogura will continue to learn from the data gathered during this race to further improve clutch products.●



Separate hydrogen filling station

OGURA RECEIVES VE/VA AWARD FROM JTEKT

Tokyo, Japan

Last quarter, Ogura Japan received an award from JTEKT Corp. JTEKT is a multinational corporation providing products to automotive and industrial markets. Ogura received this business partner award because of the ability to continually supply product during the pandemic and at the same time, achieve cost reductions to help JTEKT remain competitive in the marketplace.●



HOW'D THEY GET THAT SHOT?!

Ever watch a sporting event and wonder how in the world they got that shot? Broadcast Sports International, BSI, with offices in Maryland USA and Hertfordshire UK, knows a little something about it. Since 1979, they've been making live events come to life on your screen. From NASCAR onboard cams, to audio at PGA events, to coverage of the US presidential inauguration, they've been right in the thick of things. Building systems for live coverage events are their specialty, and if their client asks them to tackle a new engineering challenge, they are ready. All of BSI's systems are designed and built in-house. They also do a lot of one off jobs, like Nick Wallenda crossing the Grand Canyon via tightrope wearing their cameras. The radio link for camera image and sound is quite liberating.

BSI approached Ogura with a project to design a lightweight (10 pounds) remote operated pan and tilt camera mount for full sized studio cameras using their radio link. This allows, for instance, a camera to be placed way too close to the race track, risking a human operator's life and limb, but ok for a robot camera.

In this application, Ogura's MIC-3.5T clutch is used with a gear reduction as part of the drive train for the tilt function. This model, normally used as a clutch, was creatively used as a power-on brake when the camera is not

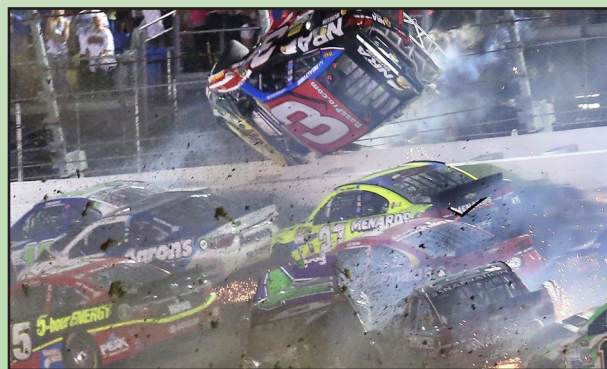
moving in tilt. The brake allows them to ignore gravity and vibration which could cause the image to drift. When voltage is applied to the electromagnetic clutch, the magnetic flux pulls the clutch's metal armature against the coil body. In this assembly, the coil body is on a fixed shaft, and by locking the armature/hub to the moving apparatus, it offers the braking function when the power is applied.

It is small and torque dense due to its triple flux design. It delivers a minimum of 0.343Nm (3 lb-in) static torque with 31.5mm OD and 18mm total length. It weighs only about 30g and uses very little power (2.4W at 20C with 24V). Other versions of MIC series are available as well in various sizes, torques and configurations.

In a rapid design situation, the off the shelf feature really helps. Ogura makes millions of this type of clutch per year for office printers, scanners, automation equipment, and even door locks, so they are easy to find and made with high quality and great price. Also, it's easily replaced if the friction surface is worn out over time. However, they expect this design to be maintenance free over many years and possibly the life of the camera mount. Eventually the next customer will want something with even more capability, and the design cycle restarts.●



NASCAR onboard camera



Action photo of dangerous wreck



*Ogura's MIC-3.5T clutch
used as a power-on brake*



Happy Summer from the Staff of Ogura

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Ogura in the News

LAWN MOWER RACING IS BACK!

Avon Park, Florida

Last quarter, both Bobby and Chuck renewed lawn mower racing with the 2021 Snowbird Nationals in Avon Park, FL. Both Ogura sponsored racers, Chuck Miller and Bobby Cleveland raced in BP class. In the first day of racing both Bobby and Chuck started out very well with Chuck in 1st and Bobby in 2nd, but Chuck got freight trained on the inside and eventually spun out. However, Bobby was able to hang on and took 3rd place.

On the second day Bobby and Chuck started in 4th and 5th place but worked their way up through the pack finishing 1st (Chuck) and 2nd (Bobby) for Team Ogura. ●



Lawnmower racing back in action

NEW GENERAL PURPOSE CLUTCH ANIMATION

Somerset, NJ

Last quarter, Ogura released their 10th product animation video showing how various clutch series work. The latest one, general purpose clutches, shows how torque is created in double and triple flux designs.

General purpose clutches are used over a wide variety of applications and industries and are one of the most diverse clutch products Ogura manufactures.

They are used in everything from farming equipment to commercial ice making machines. This animation can be viewed on Ogura's website or YouTube channel at www.youtube.com/oguraindustrial ●



Ogura's new general purpose clutch animation



***Something monstrous
is coming to this year's
GIE Expo.....***