



OGURA EXHIBITS AT EQUIP EXPO 2025

Louisville, KY

Thanks to all who met us at Equip Expo 2025 in Louisville, KY. It is an event where we put faces to names, strengthen relationships, rekindle older connections, make new contacts, and have a little fun in between.



Ogura staff and reps at Equip Expo

We listen when you speak. Ogura Clutch stands for cooperation, trust, sincerity, development, quality, innovation, and respect. We value all those who stopped by our booth, who met us at their booth, or even bumped into us casually. We are excited to hear about our customers' new developments and focus areas.



Chuck, Frank and Bobby

Even if it is sharing a coffee and snack, or grabbing some fresh air in our outdoor exhibit, we put our customers' comfort as a top priority. Our goal is not only to make those relationships, but also to make doing business with Ogura easy.

So, thank you to all who choose to do business with Ogura Clutch. Our PTO clutch brakes remain, and will continue to be a respected name in industry. Our strive for continuous improvement has led to the launch of new product designs to meet evolving market demands. We widened our range of PTO clutch brakes with a balance of price and performance. We improved our manufacturing capacity and limited perceived supply risks for our top customers. We engaged on modern technologies for the hybrid and battery powered market. If you are not aware of everything that we are doing, please let us know your challenges so that we can help. You may be surprised to learn that there is more to Ogura Clutch than you realized.

When you speak, we listen. Ogura Clutch...What You Need in a Clutch®●

OGURA WINS LEAP GOLD AWARD

WTWH Media announced 2025 LEAP (Leadership in Engineering Achievement Program) Awards on October 29, 2025. Ogura received the Gold Award in the Mechanical category for the MCNB micro holding brakes, as small as 10mm OD. This year's winners were chosen by an independent judging panel of 11 engineering and academic professionals. In the previous year, Ogura won the gold award for their MPNC-3.5 power-off, lightweight, power-saving, micro-clutches.



Brake smaller than a dime

Ogura's new micro-sized, MCNB series, holding brakes are changing the way robotics, medical, and aerospace equipment designers look at power-off holding brakes.

These are typically used for both safety and precision motion control. For surgical robotics, end-of-arm robotics applications, aerospace applications, and more, the opportunity is to make products safer, more efficient, faster, lighter, and more reliable. They also consume very little power and generate a very small amount of heat which can be critical.

The product is spring applied type, and very, very small. The brake operates by preventing a shaft from rotating when no power is applied to the brake's coil. The braking torque is generated mechanically using coil springs along a contact radius. When power is applied, the brake coil generates an electromagnetic field which actuates a disc in the axial direction, which then allows the shaft to freely rotate. This means that loads can be held precisely when power is removed, improving the quality of the machinery and process.●

Ogura Sales Rep Profile

Bill Hagenau
Controlled Kinematics Inc.

Bill Hagenau is a mechanical engineer and business leader with more than 20 years of experience in advanced manufacturing and robotics. Based in San Jose, he serves as Vice President at Controlled Kinematics, where he blends deep technical knowledge with practical leadership in motion control and automation. His work reflects a long-running passion for improving how robotics and precision motion systems are designed and built.



Bill Hagenau

A UC Davis mechanical engineering grad, Bill got his start at Westinghouse in a sales engineering role, working with electric motors that ranged from massive 3,500-horsepower refinery units in Alaska to tiny motors used in surgical robots. Throughout his career, he's helped teams apply the right technologies to bring their products to life. He also developed and patented a 3D-printing process using digital micromirror devices, successfully building a proof of concept and securing early funding—showing his mix of innovation and business drive.

While raising two kids now in college, Bill managed to stay somewhat in shape by hitting the gym. Healthy living is balanced by an enjoyment of good food and drink pairings. He is known to occasionally hit a drive in the fairway. Bill also loves hiking, dancing, and will happily sing along to almost any song—even if he only knows half the lyrics.●

OGURA HELPS CAL POLY IN TRACTOR COMPETITION

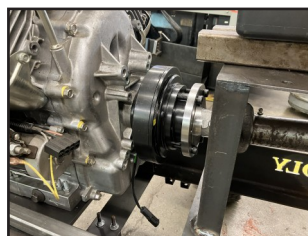
San Luis Obispo, CA

Cal Poly ¼ Scale Tractor team participated in the International ASABE ¼ Scale Student Tractor Design Competition out of around 25 teams. The team built the tractor for experimentation and development with emphasis on the drivetrain system, since it is the most



Team with 2025 tractor

important part of this vehicle and is for proof of concept.



Direct drive clutch

They needed a clutch capable of sustained use for multiple gears (6-speed transmission with a reverse gear). The Ogura MA-GT-ST1W clutch is connected directly to a driveshaft which is approx. 48"

long and extends to the rear of vehicle and then is mated with a right-angle gearbox.

The competition went well but with some hiccups. They were able to use the Ogura MA-GT-ST1W clutch but without the Ogura soft start controller. The tractor drove nicely, and the clutch worked well but could not pull due to the belt slippage, so they did not place in the competition. Their goal is to resolve that for this year's tractor and again use the MA-GT-ST1W and incorporate the soft start controller.●

SPOCOM HAWAII 2025

Honolulu, Hawaii

The Ogura Clutch team was thrilled to showcase the ORC products at SPOCOM 2025 in Hawaii on August 23rd. This exciting event featured a majority of modified vehicles, while automotive product vendors were few. It allowed Ogura to stand out in a unique setting.

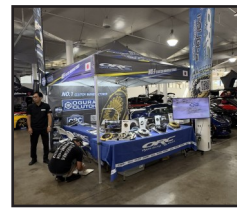


ORC Hawaii car

There were relatively few attendees who had already upgraded to premium racing clutches, suggesting an opportunity for Ogura to educate this demographic on the benefits of Ogura's higher-end products.

Additionally, Ogura received several requests for an increased number of vendors at future events, reflecting a desire for more variety in automotive offerings.

Information about nearby ORC Technical Shops was provided to approximately 20 interested customers, highlighting the convenience of local support for the clutches.●



Show booth

Application Story

Precision Stopping Power: Brakes in Medical and Robotic Applications

In industries where accuracy and safety are non-negotiable, motion control is often the silent force behind innovation. At the heart of this capability lies an unsung hero: the brake.

Brakes in Medical Technology

Modern healthcare depends on machines that operate with pinpoint precision, and brakes, play an essential role in ensuring these systems perform reliably.

One medical device manufacturer recently turned to Ogura for help in meeting these challenges. Their surgical robot design required stable support in the shoulder section as well as controlled stopping capability in the wrist section. Ogura's MCNB-40HS proved to be an ideal solution for the shoulder, offering a large-diameter bore to accommodate critical wiring. For the wrist, the compact MCNB-5 provided precise braking in a small footprint, fitting seamlessly into the design after minor modifications.



MCNB-40HS

Brakes in Robotics

In robotic arms, brakes enable joints to hold position under load, ensuring tools or payloads remain exactly where programmed. This is vital for applications ranging from electronics assembly to pharmaceutical automation, where tolerances are measured in fractions of a millimeter.

Brakes also serve as a critical safety mechanism. In many systems, electromagnetic brakes are designed to engage automatically if power is lost, preventing uncontrolled motion and protecting both equipment and personnel.

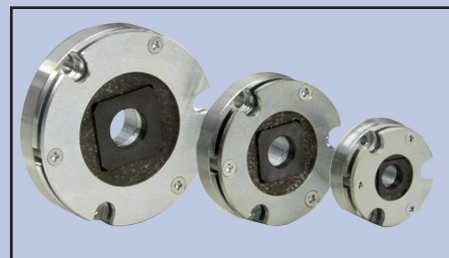
Compact electromagnetic brakes are especially well-suited for robotics. They combine rapid response times, low energy consumption, and reliable long-term performance—all within the slim design envelopes required by modern automation systems.

Why It Matters

While often overlooked, brakes are foundational to the performance of today's medical and robotic systems. They enable precision, ensure safety, and unlock the reliability that these high-tech fields demand. Ogura offers a wide range of products, with diameters as small as 8 mm, designed to meet the stringent requirements of both industries. Ogura brakes are also designed to be lightweight with a high torque to weight ratio for the most demanding applications.

As healthcare becomes more automated and robotics expands into new applications, the need for precise, compact, and dependable braking solutions will only grow. Whether holding a surgical tool steady, securing a scanner in place, or ensuring a robotic arm stops instantly when needed, brakes remain the quiet partners that make innovation possible.●

For more information on electromagnetic brakes and clutches for medical and robotic applications, visit www.ogura-clutch.com



MCNB-T series can be customized for OEM applications



Happy Holidays from the Staff of Ogura

100 Randolph Rd. • P.O. Box 5790 • Somerset, NJ 08875
Tel: 732-271-7361 • Fax: 732-271-7580
Email: oguranj@ogura-clutch.com • www.ogura-clutch.com



Ogura in the News

OGURA RACING CLUTCH AT SEMA 2025

Las Vegas, NV

Ogura Racing Clutch, ORC, put on quite the exhibit at the 2025 SEMA Show in Las Vegas. This show is for the automotive aftermarket and showcased the Ogura Clutch line of industry leading racing clutches. While initially focused on JDM (Japanese domestic market)



Drift car on display



ORC clutches

vehicles, ORC has also expanded the product line to include products for top Euro vehicles including BMW, Porsche, and Ferrari.

They are known for their high performance, quick response, quality and consistency, outstanding feel, comfortable pedal force, and overall drivability.

For those JDM enthusiasts “who know,” they were super excited to see ORC represented in USA. This powerful brand of racing clutch is now available in North America, and we are happy to support those who want to experience the best, enhance their driving, and put a legendary performance brand into their drivetrain. ●



Trying out the pedal feel

LAWN RACING FINAL

For Bobby and Chuck, it's been a busy summer for the Ogura Clutch Racing Team! It all started in Wellsville NY. May 31st. The weather cut the race short only completing heat races and only coming away with 4th and 5th place in the BP class.



Chuck and Bobby in BP class

Next up was Aurther Raceway in Reese, MI on June 28th with beautiful weather and fast track. Chuck placed 3rd place in the FXT class.

Bowles Farm Race was next in Clements, MD on August 1st and 2nd. As everyone's favorite race of the year being a three-day event and never-ending hospitality. Bobby came away with 3rd place in the BP class and Chuck 2nd place in the FXT class.



Chuck 1st place in FXT

Then the team traveled on to Fremont, WI on August 16th. Mother Nature struck again with 2 heavy rainstorms, but she didn't win. The track crew worked hard and prepared the track to race! Bobby had his best run of the season so far by handily winning his heat race. In the feature he led the race for 15 of 20 laps

His race was cut short by contact with a marker cone and damaging the front end and not able to finish. In the FXT, Chuck won his heat race, and in the feature, led the race from start to finish in 1st place!

Then in September the team traveled to Great Falls SC to Rocky Creek Raceway. The race was great with Bobby coming in 5th place in the BP class. In the FXT, Chuck won his heat race and after contact with a marker cone, he managed 3rd place for the night

So, totaling the total points in the season, in the BP class Bobby finished 2nd and Chuck in 4th place. In the FXT class, Chuck finished the season in 2nd place. All in all, it was great season for team Ogura! ●