



OGURA WINS SILVER IN 2022 LEAP AWARDS

Somerset, NJ

This year LEAP (Leadership in Engineering Achievement Program) Awards



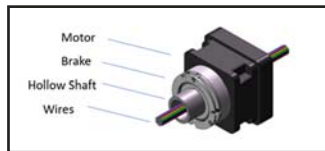
were announced by WTWH Media on October 18, 2022. Ogura received the Silver Award in the Mechanical category for the MCNB-HS series brakes. This year’s winners were chosen by an independent judging panel of 14 engineering and academic professionals.



LEAP Silver Award 2022

The MCNB-HS Series power-off spring applied brakes have oversized bores to allow wires to pass through the shaft’s hollow bore. They accommodate encoders, cables, hoses, shafts, and tools. The ratio of the brake’s field core diameter to outer diameter is leading the industry.

Internal designs allow for reduced backlash, high cycling, long life, optimized torque per size, thin profile, low weight, limited drag, low heat generation, and low power requirements. Reduced backlash is important for precision and accuracy. Special attention is made to supply stable performance and response during total life for high-cycle applications. Torque is optimized to provide a smaller package size and lower weight. The thin profiles give an advantage where space constraints are tight. Low power requirements reduce energy consumption and limit heat generation●



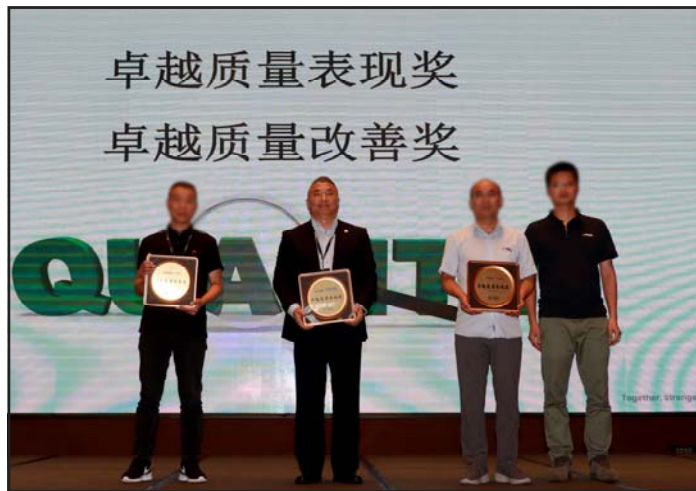
Ogura’s new large bore brake

OGURA DOUNGUAN RECEIVED STIGA’S EXCELLENT QUALITY ACTIVITY AWARD

Guangzhou, China

One of Ogura’s very important customers, Stiga held their 2022 Supplier Conference at Guangzhou Nansha Garden Hotel in China on August 26th.

Approximately 60 outdoor power equipment suppliers from engines to cardboard box makers attended. Among them was Ogura’s subsidiary, Ogura Clutch Dongguan, which was chosen as a superior supplier for its quality activities and for noise abatement, was awarded the “Excellent Quality Activity Award” from Stiga. This award is only given to suppliers that have achieved excellence in Stiga’s rigorous supplier evaluation system●



Stiga Award Ceremony

Ogura Sales Rep Profile

TIA VANDERKOOY
MARCKTECH

My name is Tia Vanderkoooy. I live in Sutton, Ontario. I studied Chemical Engineering & Technology and I have my B.Sc. Honors in Chemistry. I consider myself a people person. I love meeting new people and building relationships which is why sales greatly appealed to me. At Marktech, I am the Technical Sales Rep specializing in Medical, Agriculture, Construction, Transportation, Military & Defense, and Sheet Metal Fabrication.



Tia Vanderkoooy

In my free time, I enjoy going to my family's cottage in Magnetawan and spending time with friends & family outdoors. I love hiking and camping; I have been to several camp spots in Ontario and hiked at Zion & Yosemite National parks.

I love cooking shows, I aspire one day to be "Master Chef" level with an imaginary Michelin star in my household. I really enjoy cooking for my friends and family and trying new dishes. My favourite meals to make at the moment are Pesto Gnocchi & Chicken Cacciatore. I don't go a day without having dark or milk chocolate.. not picky and I drink green tea all day long. To balance out the foodie in me (just kidding).. Fitness is a big part of my life. I grew up swimming competitively, and more recently I was a CrossFit coach and did local fitness competitions in Toronto & GTA.

I am roommates with my husband Nicholas. We have a Sphynx cat named Baby Nakey and coming soon to join our family we are getting a blue/black Great Dane named Biggie!●

ALL JAPAN BUSINESS TEAM SPINNING TOP COMPETITION

Kiryu, Japan

Last quarter Ogura team participated in the All-Japan Business Team Spinning Top Competition. There were 24 teams in total. It is a competition where you make a small top spin with one hand and the top which spins the



MANSSI Team



Practicing new top spinning techniques

longest wins. The top is 20 mm in diameter and 60 mm high. Ogura had five employees compete for its team and one employee from the engineering department was responsible for making the top. The top was given the name MANSSI which consisted of the first initials of the team members' names. The participants practiced once a week trying to figure out the best spinning technic.

Ogura team won 2-1 in the first two rounds. The 3rd round was played under the rule that the team with the winning streak wins. Ogura lost the first match with Kiryu Sewing but won the next one and with another win could go to the semi-finals but unfortunately, it lost consecutively after that. Nonetheless, it was a very interesting and valuable experience●

2ND OGURA CLUTCH QC CIRCLE MEETING

Kiryu, Japan

The annual Ogura Clutch QC Circle Meeting took place in July. During the meeting, the following six cases were presented: four cases of productivity improvement, one case of quality improvement, and one case of work efficiency improvement. Also, for the first time at this meeting each section chief commented on the improvement of their own circle.

At the end of the meeting, the manager Kurozu said that he was impressed by presentations of highly effective improvements, especially because they were not just efficient but also "friendly to the people involved in the work." At the end of the meeting, General Manager Takeuchi presented the gold prize award certificate to the takeoff circle●



Ogura Clutch QC Circle Meeting

Application Story

Grilled lobster with seared sea scallops? Diners depend on Ogura clutches for tonight's catch of the day

Believe it or not, your favorite seafood restaurant's catch of the day might be compliments of an Ogura clutch. No, we don't do the actual fishing, but our products help haul in the catch!

Maritime Marine Supply has been committed to providing Ogura clutches to the commercial fishing market for over 20 years. They are in Prince Edward Island and Nova Scotia, Canada. As a leader in the North American commercial fishing industry and diesel engine business, they support the industry which includes lobster and snow crab, scallops, shellfish, and aquaculture.



Grilled lobster with seared sea scallops dinner

The fish harvesters need a dependable hydraulic system to haul in their catch. The electromagnetic clutches are the link between the ship's engine power and the hydraulic haulers and booms. When needed, a switch is turned on and power engages the electromagnetic clutch, which then energizes the pump to provide hydraulic pressure. Those hydraulic haulers and booms get the catch out of the sea and onto the boat.

When at sea, it is the absolute worst time to have a breakdown. Livelihoods are at stake and restaurants need the supply to keep us folks well fed! Maritime

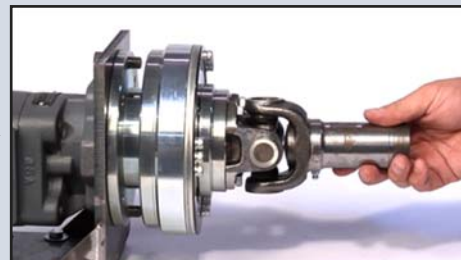
Marine Supply have sold clutches all over the world, into some of the harshest fishing areas of Iceland, Greenland, Alaska, Atlantic Canada and many more. Conditions can be tough, and only the most reliable components are preferred. Our clutches are designed and built to withstand engine vibrations and shock loads, limit corrosion, handle high temperatures and provide long life. Even if a failure does occur, the clutch has a "limp home" feature which enables mechanical engagement of the clutch using bolts.

While the clutch is used for reliability, it also helps reduce fuel consumption and save money. It allows the pump to be turned off when not required. By turning the pump off, it extends the service life of the pump as well.

Commercial boat builders and hydraulic service shops trust in Ogura pump clutches in the MA and MMC series. They operate on either 12V or 24V DC. They range in torque from 58 to 1500 lb-ft. An optional electric soft start controller can be added to produce a softer engagement. Some have pulleys but the larger clutches accept universal driveshaft couplings for inline drives. The clutch is mounted

directly on the pump or via a mounting bracket.

When your livelihood is on the line, it pays to partner with someone who you can trust. Maritime Marine Supply was created from a merger of 2 long time competitors with deep roots in Atlantic Canada with over 120 years combined experience. Ogura has over 80 years of experience and is the world's largest manufacturer of electromagnetic clutches. The seafood is delicious, now pass the bread please! ●



MMC-28 bracket mounted clutch on hydraulic pump, driven by a universal drive shaft



Fishing vessel, Kathy Rose in the United States



Ogura in the News

NEW PRODUCT SHOWN AT MACHINE ELEMENT TECHNOLOGY EXPO

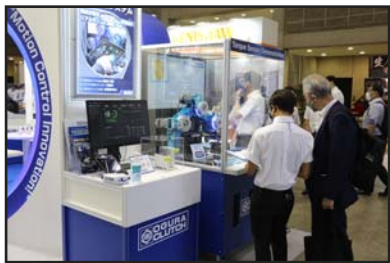
Tokyo, Japan

Last quarter, Ogura exhibited a variety of clutches and brakes for industrial-related equipment and factory automation. This show was the first showing of the “life prediction



Ogura's booth at Machine Element Technology Expo

system”. This feature can relay the product status of spring-applied holding brakes in real time. This information can be used to confirm the wear rate of holding brakes so maintenance can be performed, or the brake can be switched out before the brake reaches the end of its life.



Visitors at Ogura's booth

The new large bore holding brakes for medical applications were also shown as well as the series of cobot-friendly brakes, which are designed to hold robotic arms in place but can slip if the robotic arm needs to be manually pushed away. This was the first large show that many visitors had attended in years. It was good to see many old friends and hopefully, some new friends were made as well●

OGURA IN DESIGN WORLD

Design World Magazine



Article in Design World

In the November 2022 issue of Design World, Ogura Industrial’s Sales Manager, Brian Mather, wrote the cover story describing the Top 12 Design Considerations for Power-Off Brakes. The 8-page spread featured spring applied and permanent magnet brake technology for servomotors, robotics, mobile robots, warehouse automation, wheel drives, hoists, elevators, doors and gates, industrial automation, surgical tools, grippers, conveyors, actuators, automotive automation, and escalators.

Engineers are challenged with certain design parameters, and the article focuses on approaches to overcome those concerns. While every machine and industry are different, some of the design challenges are shared by many applications across several industries. In support of Ogura, the article suggests early collaboration with the brake manufacturer to benefit from experience and expertise and to obtain optimization in life, cost, and performance.

Visit Ogura’s website to view the full article●