



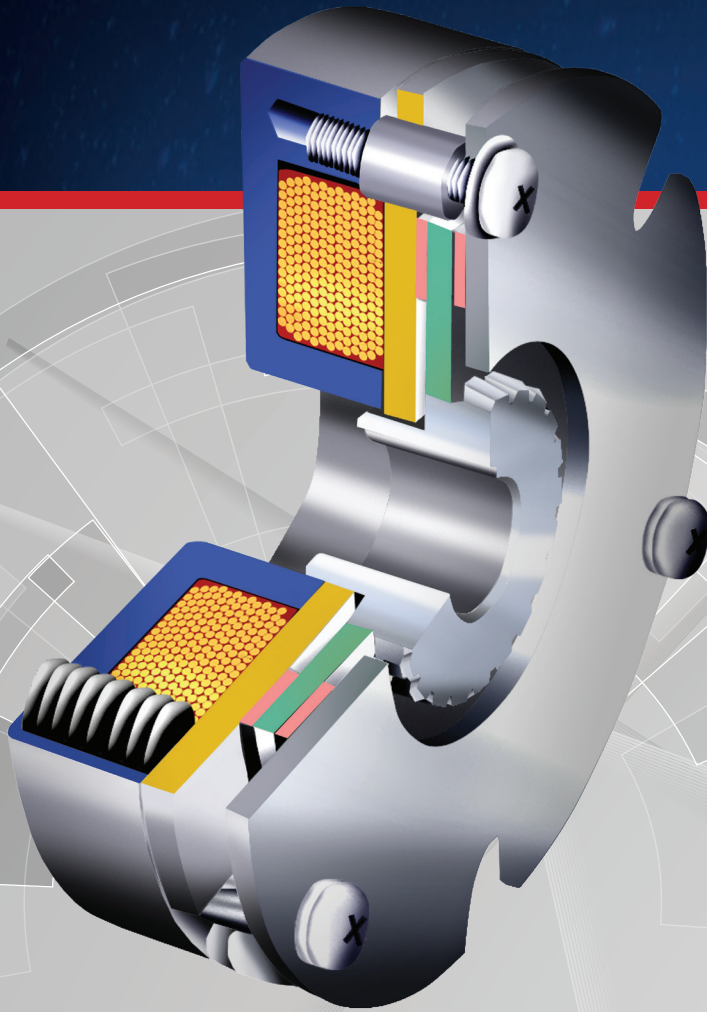
Electromagnetic  
**Power Off Brakes**  
for Motors, Robotics and Medical Equipment



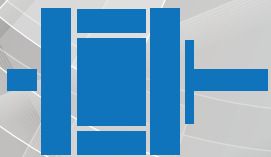
**OGURA**  
INDUSTRIAL CORP.

"What You Need in a Clutch®"

# Power Off Brakes



*Ogura makes a very wide variety of holding brakes to fit the needs of industrial and mobile customers. Brakes can be made to stop or to simply hold a load with either minimal or zero backlash design options.*



Servo Motors



Medical



Robotic Arm



Elevator/Hoist

## Ogura Provides **Innovative Solutions**

That Meet Your Challenges

Industrial mobilization throughout the world continues to accelerate. Where products are manufactured is not as important as who is manufacturing the products. This is especially true in the field of industrial products. Ogura Clutch has been developing clutch and brake technology for over 80 years and has developed over 7,000 different clutch and brake models and holds a number of clutch and brake patents.

Ogura is driven by the "monozukuri spirit" which means craftsmanship in both design and manufacturing. With our extensive knowledge base, we help our customers turn their ideas into reality.

**High Quality** - Quality of design and manufacture are Ogura's highest priorities. Products are set not only to meet, but to also exceed the highest demands of our global customers.

**Manufacturing Technology** - Ogura currently has 14 worldwide production facilities to meet the global needs of our customers and deliver the best value per manufacturing location.

**Research and Development** - Product planning with a clear understanding of customer needs and expectations aligned with overall market trends keeps us in the forefront of clutch and brake design.

For detailed specifications for the entire Power



# Ogura – quality you can trust and depend on



## Power Off Brakes

The holding brakes offered by Ogura cover the widest torque range of any product line.

With the continuing expansion of robotics and factory automation, holding brakes are being used in an ever-expanding role on servo motors and robotics applications. New servo motor brakes can be the size of a dime while multiple disc 20,000 ft lb elevator brakes can be almost four feet in diameter.

For safety and convenience, many other industries are also relying on motor drive applications such as medical that uses positioning equipment for x-ray and CT scanners and warehousing that uses automated carts to transport and pick.



**MB Brakes**

**MB Electromagnetic Micro Spring-Applied Holding Brakes** for holding and e-stop only. Extremely small holding brakes for servo motors, robotics and medical applications. Micro brakes come in two styles, circular or square, to match up with the servo motor frame size.



**MCNB-T and RNB-T Brakes**

**MCNB-T and RNB-T Electromagnetic Thin-Style Holding Brakes** for holding and e-stop only. Torque range: 1.5-37 lb-ft or 2-50 Nm. Ultra-thin style of holding brakes are designed to reduce the overall footprint of a motor brake package. Through internal flux improvements, brakes are thinner and lighter but can produce similar torques of previous designs.



**SNB Brakes**

**SNB Electromagnetic Spring-Applied Brake** for stopping and holding. Torque range: 0.7-74 lb-ft or 1-100 Nm. A large surface area friction disc allows for many trouble-free cycles. Standard voltages are 24 and 90, but other voltage options are available. Large units have tapped holes for manual release. Optional manual release lever is available by special order.

**RNB Electromagnetic Spring-Applied Brake** for holding and e-stop only. Torque range: 1.5-148 lb-ft or 2-200 Nm. Standard voltages are 24 and 90, but other voltage options are available. RNB-Z series (zero backlash) option is available on some models. Large units have tapped holes for manual release. Optional manual release lever is available by special order.



**RNB Brakes**

**MNB Electromagnetic Spring-Applied Brakes** for stopping and holding. Torque range: 1.5-590 lb-ft or 2-800 Nm. MNB units 1.2 and higher have adjustable torque feature. Torque of the brake can be fine tuned to fit individual application needs. Tapped holes for manual release are included on all units. Optional manual lever release lever is available by special order.



**MNB Brakes**

**Electromagnetic Permanent Magnet Brakes** for stopping and holding. Torque range: 3.5-1062 in-lbs or 0.4-120 Nm. Braking force is produced via magnets which reduces both the size and weight of the brake versus spring applied brakes. Armature is connected to the hub via springs which eliminates backlash. Because torque is produced magnetically, it is very controllable so brakes can provide a softer stop versus spring applied designs.



**PMB Brakes**

# Other solutions available from Ogura



**1 Power off brakes**  
to hold or stop in the  
absence of electrical  
power



1

**2 Multiple disc  
and tooth  
clutches**  
high torque,  
can run either  
dry or in oil



4

**4 Mobile equipment clutches**  
for use with gas and diesel  
engines on outdoor power  
equipment and engine driven  
components



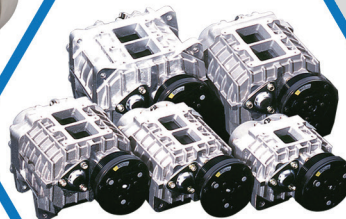
2

**3 Industrial  
clutches / brakes**  
single face  
quick response,  
high cycle



3

**5 Superchargers**  
for increased  
engine  
performance  
and reduced fuel  
consumption



5

**6 Tension control**  
hysteresis and magnetic  
particle for precise torque  
control



6

## Ogura has over 7,000 Standard and Custom Electromagnetic Clutch and Brake Designs.

Founded in 1938, Ogura has over 80 years' experience in the manufacture and design of clutches and brakes. Ogura is currently the world's largest manufacturer of electromagnetic clutches and brakes producing around 30 million units per year with over 7,000 standard and custom designs available from 14 manufacturing ISO certified facilities throughout the world.

Visit [www.ogura-clutch.com](http://www.ogura-clutch.com) to learn more.

Visit our YouTube channel for an extensive library of installation, maintenance, and how-they-work animated videos



<https://www.youtube.com/user/oguraindustrial>



**OGURA**  
INDUSTRIAL CORP.

"What You Need in a Clutch®"

100 Randolph Road • Somerset, NJ 08875-5790 • Tel: (732) 271-7361

**[www.ogura-clutch.com](http://www.ogura-clutch.com)**