

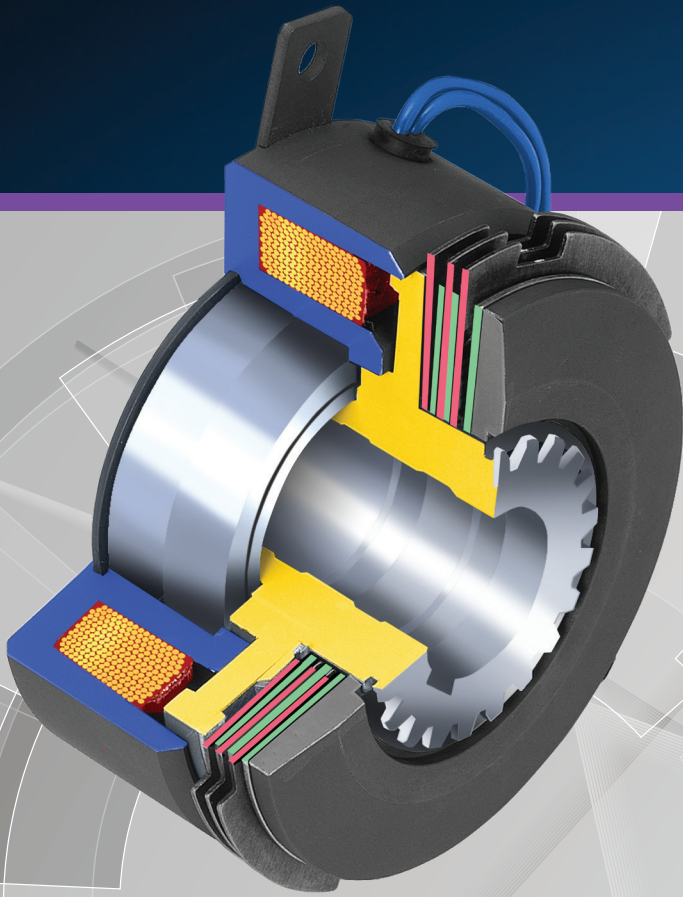


Electromagnetic Industrial Clutches and Brakes for Processing and Automation Equipment



"What You Need in a Clutch®"

Industrial Clutches/Brakes



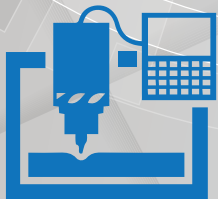
The many models of Ogura industrial clutches and brakes give the customer the choice to fine tune the design options best available to meet the application requirements.



Packaging



Food Processing



Machine Tools



Office Machinery

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 Industrial

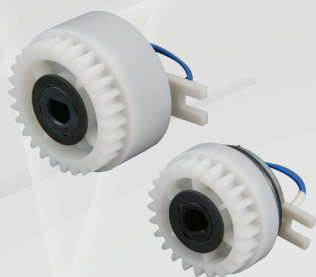


Industrial Clutches and Brakes

Ogura's industrial clutch and brake line has the widest variety of product offerings available. These clutches and brakes are primarily designed for factory automation, food & beverage processing, packaging, material handling and machine tool applications.

Ogura offers a variety of armature designs that can provide quiet operation, zero backlash or automatically adjust for wear to provide extremely long life. Quick response times can be achieved for high cycling or high precision applications.

Multiple disc and tooth clutches offer the greatest torque per size of any of the electromagnetic clutch designs. Besides electromagnetic, Ogura also offers multiple disc mechanical clutches as well as multiple disc hydraulic brakes.



MIC Clutch

MIC Electromagnetic Single Face Micro Clutch

Torque range: 2-7 in lbs, 0.25 to 0.8 Nm.

Clutch is bi-directional and can be supplied with a lead wire or built in terminal. This one piece assembly features a custom molded gear or pulley designed to your specifications.



V Clutches/Brakes

V Electromagnetic Single Face Clutches and Brakes

Torque range: 4-148 lb-ft or 6-200 Nm. Clutches and brakes have standard zero backlash armatures. Some models include an automatic air gap adjustment that maintains the air gap as the clutch wears. This series also includes a quiet armature design that reduces noise during engagement.



MZ Clutches

MZ Electromagnetic Tooth Clutches

Torque range: 18-2950 lb-ft, 25-4000 Nm.

Designed for high torque in a small space where no slip is desired. Clutches can be used dry or in an oil bath. MZS option provides single position engagement. High precision tooth design provides minimal backlash. Clutch can be used as a brake by fixing the output to a stationary member.



AM Clutches/Brakes

AM Electromagnetic Single Face Clutches and Brakes

Torque range: 2-70 lb-ft, 0.25 to 8 Nm.

Clutches and brakes have a zero backlash armature and long life friction material. Clutches use a double ball bearing field for long life and premium performance. Floating armature option significantly decreases response time.



MMC Clutch

MMC Electromagnetic Single Face Clutch

Torque range: 37-1475 lb-ft or 50-2000 Nm.

All clutches use a zero backlash, bi-directional spring which is designed for heavy vibration applications. Clutch surface is tempered to provide additional corrosion resistance.



MD Clutches/Brakes

MD or MW Electromagnetic Multiple Disc Clutches and Brakes.

Torque range: 13-8851 lb-ft, 18-12000 Nm.

Designed for high torque and for starting or stopping at speed. Separate drive cup allows for easy connection to a gear or pulley. Clutches and brakes can be used dry or in an oil bath. Separator springs between friction plates provide quick release time.

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



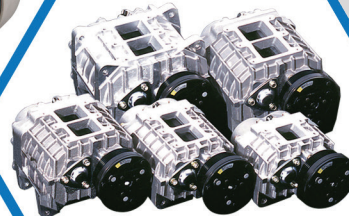
6

3

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



5 Superchargers
for increased
engine
performance
and reduced fuel
consumption



5

6 Tension control
hysteresis and magnetic
particle for precise torque
control

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 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>



"What You Need in a Clutch®"

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

www.ogura-clutch.com