

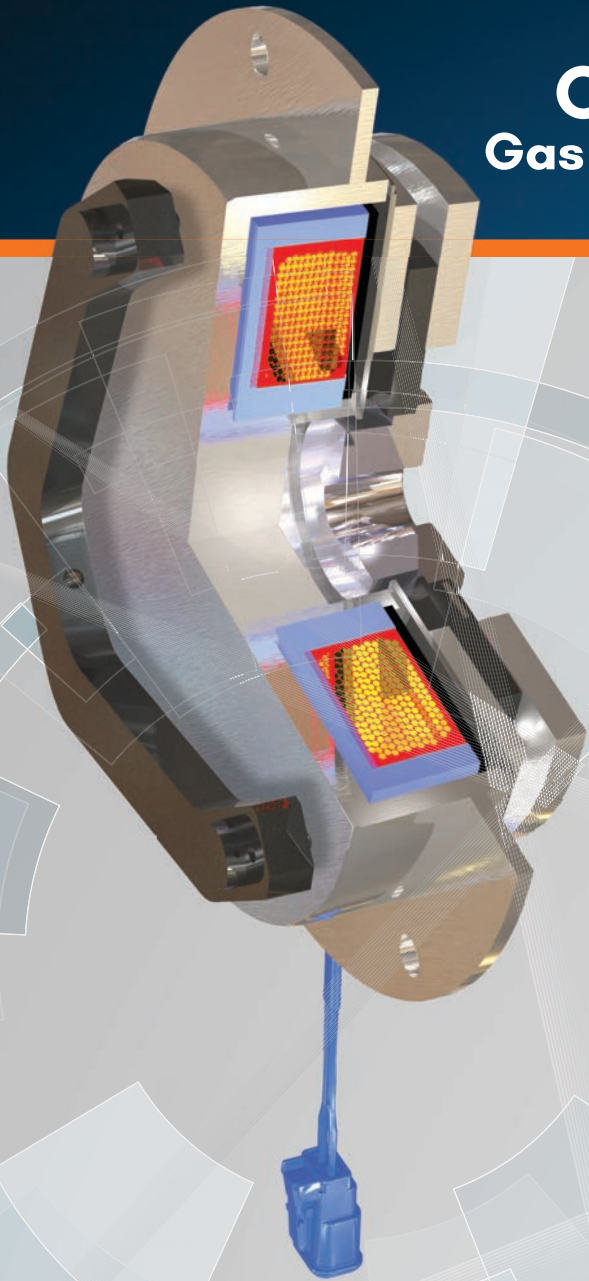


Electromagnetic
Clutch and Brake Solutions
For the Gas and Battery Turf Care Market



"What You Need in a Clutch®"

Clutches and Brakes for Gas and Battery Turf Care Equipment



Ogura Provides
Innovative Solutions
That Meet your Challenges

Ogura Industrial Corp has long enjoyed supporting the OEM customers in the Lawn & Garden industry. Servicing virtually every company in the market, the Ogura brand is known, respected, and trusted by designers and operators alike. Nearing close to 100 years of manufacturing experience, we are aligned to support designs for today and for the future.

Our line of PTO Clutch Brakes and Soft Start Controllers are complimented by our long established line of Power-Off Brakes.

These spring applied holding brakes will be used across numerous platforms as parking brakes on next generation battery powered equipment. Leading features include low power consumption, ultra-thin profile, and light weight. They are the next big item to take Ogura into the centennial celebration.

Ogura PTO Clutch Brakes remain as durable and trusted as ever. The robust designs are adjustable for wear, extending clutch life and increasing uptime. Backed by professional engineering support and top quality manufacturing, we are poised to keep the brand at the forefront of the industry.

The many clutch and brake solutions presented by Ogura Industrial have something in common. They exemplify quality, dependability, experience, craftsmanship, and trust.



Zero Turn Mower



Riding Tractor



RoboMower



Motor on Battery Powered ZTR

For detailed specifications for Turf Care Equ



Electromagnetic Clutches and Brakes

Ogura offers the widest variety of solutions. Aside from the standard lineup, it is common to modify existing models or engineer completely original solutions to suit the application needs.



PTO Clutch Brakes

Torque Range: 90 – 400 lbft, 122–475 Nm

Ogura GT series clutch brakes are for gas and diesel engine applications up to 40HP. The latest innovative designs have active patents in USA and China. The heavy-duty variety provides up to double the life of competitive clutches as they can be adjusted for wear in a matter of minutes, even while on the machine. The clutch provides on/off control of torque transfer to the cutting blades or other implements, while the brake provides a safety feature for slowing down the blades.

They actuate with 12 Vdc and consume 40–68 W. Bore sizes match contemporary engine shaft sizes. Pulley or hub outputs are available. Pulley pitch diameters range from 2.75 to 7.72”.

Ogura PTO clutch brakes have solid forged rotors which means no chance of internal parts separation. They come with lead wire or integral connector construction. They include high temperature, long life grease. The e-coating provides maximum corrosion protection. The epoxy coated coils are rated for high temperature and can withstand both vibration and contaminants. The pulleys are heavy duty roll formed or machined steel, resisting damage due to abusive environments. Lighter duty units use a coating on the clutch face to reduce burnishing time, while the higher torque units come pre-burnished to increase out of box torque.



Soft Start Controllers

Gas or Diesel Version, Open or Closed Loop

These devices help provide smooth clutch engagement, reduce belt screech, jolt, and deck shake. They extend component life including belts, and they eliminate stalling from engine droop. They can be used on all Ogura PTO clutch brakes.



Power-Off Holding Brakes

0.24–148 lbft, 0.32–200 Nm

These Spring Applied and Permanent Magnet types are offered as both standard and customizable brakes. Popular brakes have a super thin profile for tight space constraints. They offer low power consumption and are light weight for battery powered equipment. Manual release and sealing designs are optional. Connectors are available. Worldwide manufacturing capacity is large and growing.



General Purpose Clutch

100–400 lbft, 136–475 Nm

These are similar to the PTO Clutch Brakes but do not have the brake included. They are mostly actuated with 12Vdc but a few are made for 24Vdc. They offer remote actuation, reduced power consumption from the engine, simple installation, operator convenience and safety, cold weather starting, fuel savings, and extended component life.

Other solutions available from Ogura



1

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



3

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



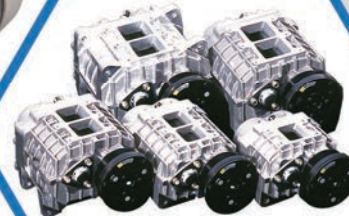
2

**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



5

5 Superchargers
for increased
engine
performance
and reduced fuel
consumption



6

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®"

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