

## OGURA Industrial Corp.

**Ogura Industrial Corp** has demonstrated its leadership in providing motion control solutions and is currently the world's largest manufacturer of electromagnetic clutches and brakes.

In order to meet customized needs of today and tomorrow, we have continued investment in manufacturing technologies and latest design principles.

We are ISO 9001-2000, 14001, and ISO/TS 16949.

We have 14 manufacturing plants worldwide capable of producing 30 million clutches/year.

Our current product portfolio includes 3000+ clutch and brake designs meeting torque requirements ranging from 0.01 in-oz to 25,000 ft-lb.

We welcome the opportunity to put our manufacturing and engineering skills to work for you.

### Ogura Industrial Corp

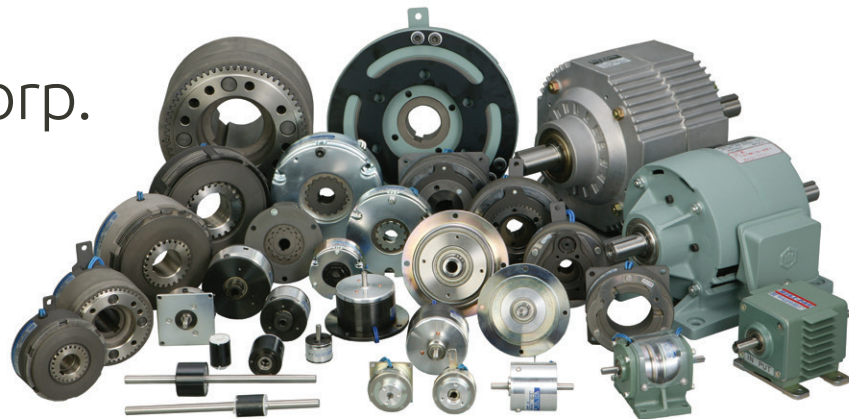
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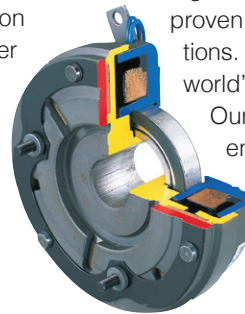
Nominate engineering leadership for a person or inventor, engineering leadership by a specific department, or an overall company accomplishment.



### AUTOMOTIVE

Ogura supplies roughly 1/3 of automotive compressor clutches throughout the world. This high volume production base gives Ogura an edge in other high volume electromechanical components and clutches for:

- Throttle bodies and variable shaft cam timing
- Transfer cases, power transfer units, and electromagnetic locking differentials
- Liquid heat generators, powertrain components, and more



### INDUSTRIAL

Electromagnetic clutches and brakes are used in any rotational application where motion needs to be controlled. Holding brakes are commonly used for servo motors and robotics. Micro-clutches are used on paper handling and office automation equipment. Single face friction, multiple disk, tooth, magnetic particle, hysteresis and permanent magnet units are used to control motion and provide safety for:

- Robotics and medical equipment
- Factory automation and processing equipment
- Paper handling for copiers and printers



### CONSTRUCTION & OUTDOOR POWER EQUIPMENT

Ogura electric PTO clutch designs have proven reliability through millions of installations. We supply a significant portion of the world's consumer/commercial turf market.

Our mobile pump clutches allow auxiliary engine components to be disconnected when not in use, reducing power consumption, extending component life and providing better fuel economy for:

- Mowers, tractors, stump grinders, trenchers
- Ag applications (spreaders, seeders, harvesters)
- Pumps (hydraulic, water, vacuum)

### SPECIALTY

Ogura produces specialty products like superchargers (air blowers) and special motor sports clutches and brakes. Our superchargers have very high efficiency versus traditional roots blowers. They are helping to reduce engine horsepower, lower emissions and are increasingly being used in fuel cell requirements to control both air and hydrogen. Because of Ogura's high quality production, we are also certified to produce aircraft components under ISOJIS Q9100.

