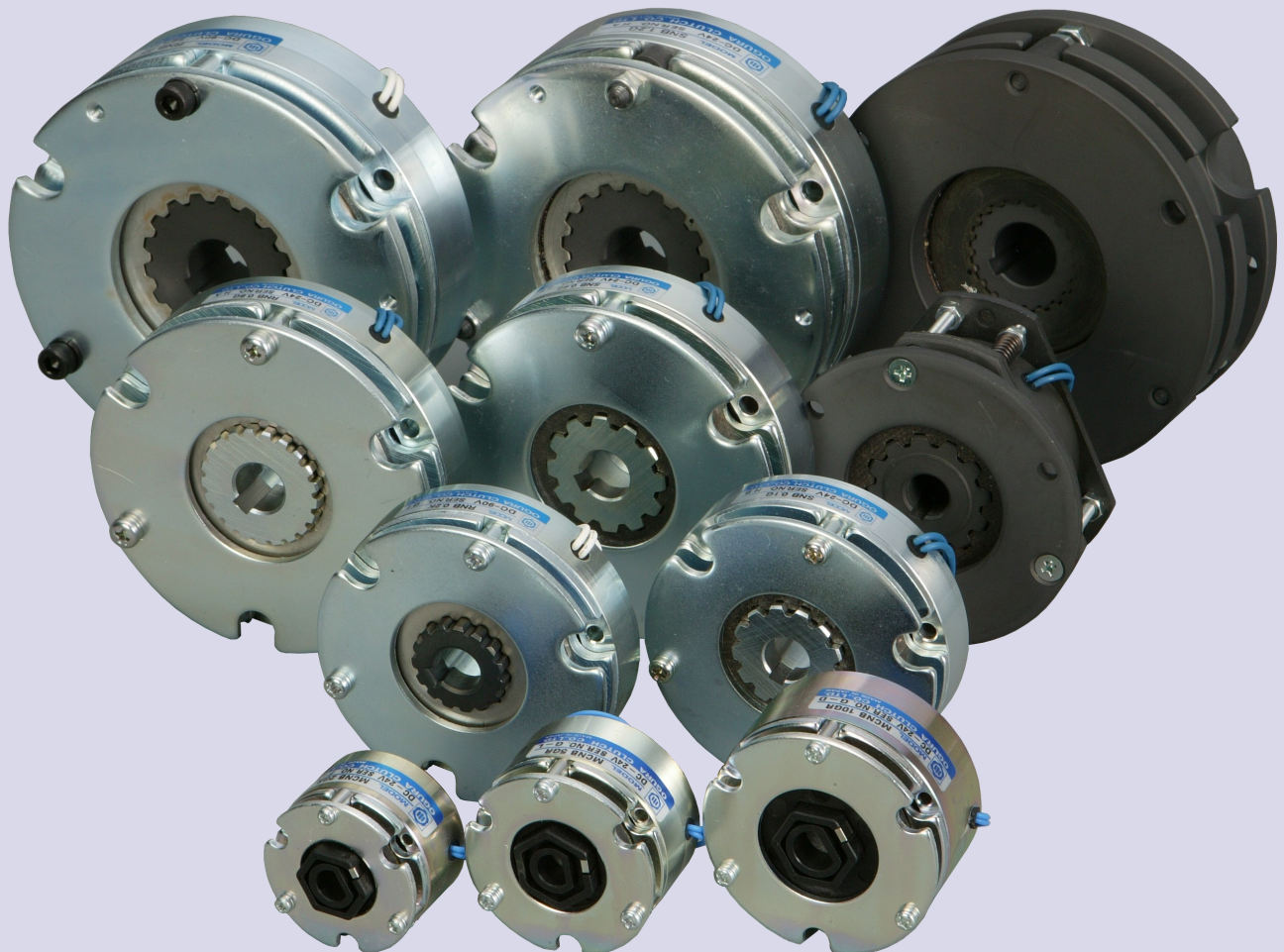




OGURA
INDUSTRIAL CORP.

Spring-Applied Brakes





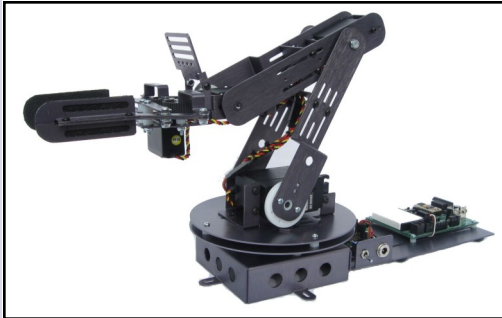
Founded in 1938, Ogura is the world's largest manufacturer of electromagnetic clutches and brakes.

Current manufacturing capacity is over 30 million units per year. Clutches and brakes are produced in 14 manufacturing plants spread throughout four continents.

Ogura is ISO 9001-2000, 14001 and ISO/TS 16949 certified.

With over 3,000 models in production, Ogura is sure to meet your specific product needs.

Where Ogura Brakes are Used



Robotics



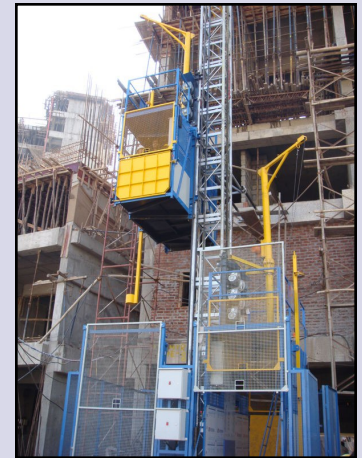
Material Handling



Servo Motors



Machine Tools



Elevators and Hoists



Windmills



Medical Equipment

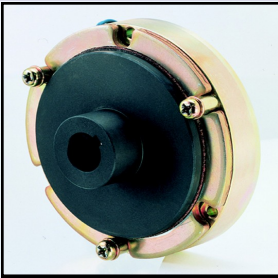
Power Off Brakes

MCNB Series



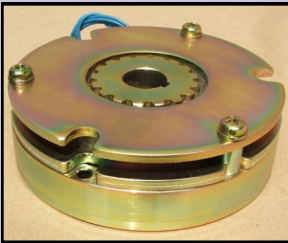
Small Spring Applied Brakes Torque Range: 1.8~8.9in-lbs/0.2~1Nm
Available with either D hub designs or set screws. Standard voltages are 24 and 45 but other voltage options are available. Units are designed to give 100% rated torque right out of the box. No burnishing required.

FNB Series



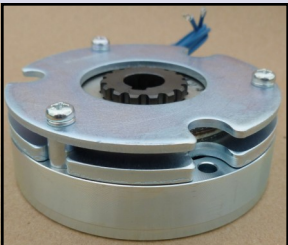
Semi – Custom Spring Applied Brakes Torque Range: 9~71 in-lbs/1~8 Nm
A very thin profile brake which is mainly used for robotic and ball screw applications. This brake does not come with a hub so customers have flexibility with integrating the brake to their machine by providing their own hub.

SNB Series



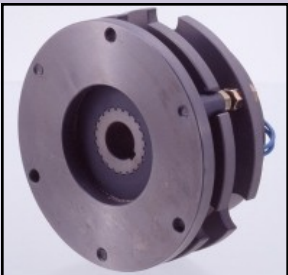
Spring Applied Brakes Torque Range: 0.7~74ft-lbs/1~100Nm
For both stopping and/or holding. Very thin brake profile provides a compact package. Braking force is produced via springs so basic fluctuations in voltage and temperature have no effect on the brake. Long life friction material allows for many trouble free cycles. Standard voltages are 24 and 90 volts. Other voltage options are available.

RNB Series



Spring Applied Holding Brakes Torque Range: 1.5~148ft-lbs/2~200Nm
For holding and E-stop only. Very thin brake profile provides a compact package. Braking force is produced via springs so basic fluctuations in voltage and temperature have no effect on the brake. Standard voltages are 24 and 90 volts. Other voltage options are available. Zero backlash and manual release options are also available.

MNB Series



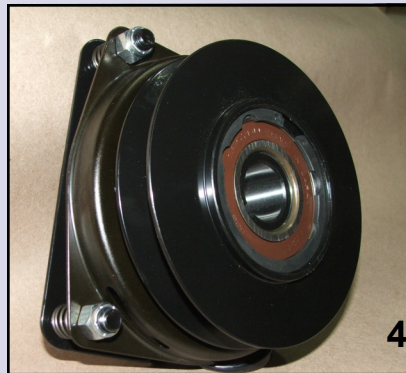
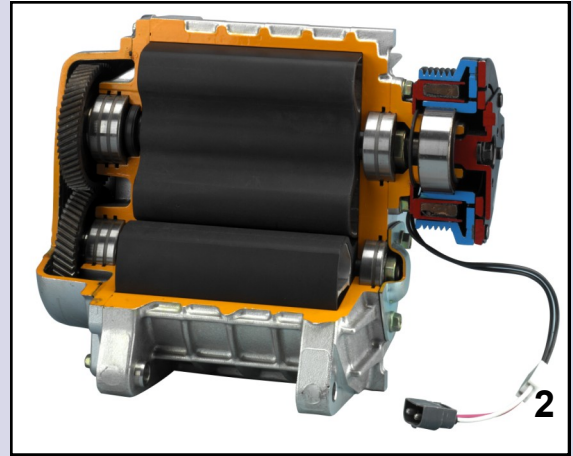
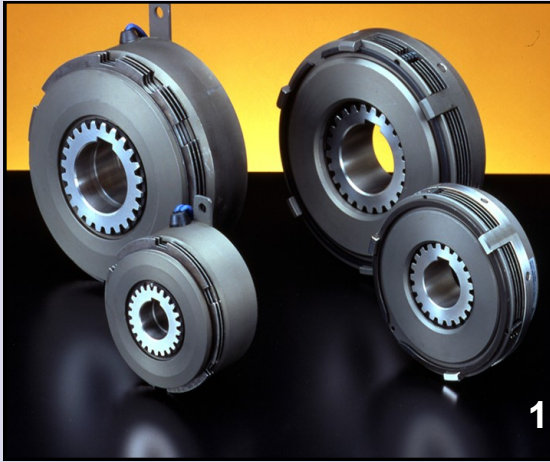
Large Spring Applied Brakes Torque Range: 1.5~590ft-lbs/2~800Nm
Units are designed for stopping and/or holding. MNB units 1.2 and higher have adjustable torque feature. Torque of the brake can be fine tuned by you to fit application needs. Bolt holes for manual bolt release included on standard units. Optional manual lever releases available by special order.

PMB Series



Permanent Magnet Brakes Torque Range: 3.5~265in-lbs / 0.4~30Nm
Brake force is produced via magnets which reduces both size and weight of brake versus spring applied brakes. Armature is connected to hub via springs which eliminates backlash. Standard brakes can accommodate temperatures up to 140deg C. Brakes can be tuned to provide a controlled stop. Output assemblies easily modified to fit application needs.

Other Products Available From Ogura



1. Multiple disc clutches for use within a gearbox
2. Superchargers to increase performance and keep fuel usage low
3. Electric clutches for use on gas and diesel engine driven equipment
4. PTO clutch/brakes for cutting blades on consumer and commercial mowing equipment
5. Electric clutches for pumps and compressors
6. Magnetic particle clutches and brakes for fast response and tension control applications

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