For safe and reliable operation, it is essential to read the user's manual carefully before using this equipment.

We have a new slogan in Japan; “ECOing” a combination of “eco” and “ing”. This is to promote eco-friendly technological development and manufacturing. Our ecological activities are of course not limited to Japan and practiced in many countries around the world.

SINFONIA TECHNOLOGY CO., LTD. continually upgrades and improves its products. Actual features and specifications may therefore differ slightly from those described in this catalog.

For more information, please visit our website: http://www.sinfo-t.jp
Electromagnetic Clutches and Brakes

Rated Torque:

PMC
POC
TZ
BO
HO

winding machine
Automatic spinning

JC
Facsimile
Pleating

TB
Ticket vending machine
Copy machine
Elevator
IT device
machinery

Extremely accurate; in response and quick permit
Most suitable as emergency brakes, safety brakes,
SBR is spring-activated.
Non-exciting electromagnetic brakes.
Easy to install; a variety of convenient multifunction units available.
Outstanding durability ensured by a unique clover-shape leaf spring.
for troublesome adjustment during whole life.
Silent construction with no squeal noise.
Distinguished in heat dissipation.
Highly responsive and accurate in action.

Wide variety of compound product series which combine motor,
on the machine.
Frequent operation and heavy use.
Large heat-radiation capacity and can withstand exceedingly
unique construction and materials.

Elevating unit
Delivery
Metal
machinery
Medical
Delivery

Rated Torque:

6
0.25
~
3000Nm
15Nm

Rated Torque:

400Nm
50Nm
(~1800Nm)
380Nm
0.06

Rated Torque:

1Nm
6
2Nm

Rated Torque:

800Nm
15
12

The machines shown here are only a sampling of what is available.
Electromagnetic Clutches and Brakes

**For Automation of All Kinds of Mechanisms**

**SEL&C&B**
- **DRY, SINGLE-PLATE CLUTCHES/BRAKES**
  - Clipping drive with auto-gap device
  - Highly responsive and accurate in action
  - Distinctive in heat dissipation
  - Silent construction with no squeal noise
  - Adhesive-free facing

**WARNER DRY, SINGLE-PLATE CLUTCHES/BRAKES**
- Equipped with an auto-gap device which eliminates the need for troublesome adjustment during whole life.
- Extremely accurate in response and quick permit wide torque control.
- Large extinction capacity and can withstand exceedingly frequent operation and heavy use.
- Compact and easy to install; longevity ensured by their unique construction and materials.
- Easy to use and easy to install; can be readily mounted on the machine.
- No need for combination design, machining or centering.

**Warners**
- SFC: with gear
- SFC: with shaft
- SFC: with hollow shaft

**PARTICLE BRACTES**
- PMC SERIES
  - Rated Torque: 3 - 30Nm
- PTB SERIES
  - Rated Torque: 3 - 30Nm
- TZ SERIES
  - Rated Torque: 3 - 30Nm
- STZ SERIES
  - Rated Torque: 3 - 30Nm

**PARTICLE BRAKES**
- For problematic applications without clearance at a fixed position.
- Suitable for highly frequent operation.

**HYSTERESIS CLUTCHES/BRAKES**
- Constant in torque regardless of the number of slip speed.
- No shock when coupling; outstanding in torque repeatability.

**HYSTERESIS CLUTCHES/BRAKES**
- EPR SERIES
  - Rated Torque: 3 - 10Nm
- EP SERIES
  - Rated Torque: 3 - 10Nm
- EASILY MOUNTED
  - MICRO CLUTCH PMC SERIES
  - Rated Torque: 3 - 10Nm
  - Rated Torque: 3 - 10Nm

**TENSION BRAKES**
- Incorporate a friction disk and an armature for slip service.
- Feature great durability and fully withstand continuous slip service.
- Permit wide-range torque control and hence highly accurate control.
- Various types of control systems available so that outstanding tension control systems can be designed.

**WARNER CLUTCH**
- SFC SERIES
  - Rated Torque: 3 - 30Nm
- SPC SERIES
  - Rated Torque: 3 - 30Nm
- SPP SERIES
  - Rated Torque: 3 - 30Nm

**PARTICLE CLUTCH**
- PCC SERIES
  - Rated Torque: 3 - 10Nm
- PC SERIES
  - Rated Torque: 3 - 10Nm

**PARTICLE BRAKE**
- PB SERIES
  - Rated Torque: 3 - 10Nm

**DOUBLE-FACE BRAKES**
- PMC SERIES
  - Rated Torque: 3 - 30Nm
- PTB SERIES
  - Rated Torque: 3 - 30Nm

**DOUBLE-PLATE CLUTCHES**
- PMC SERIES
  - Rated Torque: 3 - 30Nm
- PTB SERIES
  - Rated Torque: 3 - 30Nm

**PARTICLE BRAKES**
- PMC SERIES
  - Rated Torque: 3 - 10Nm
- PTB SERIES
  - Rated Torque: 3 - 10Nm

**PARTICLE CLUTCH**
- PMC SERIES
  - Rated Torque: 3 - 10Nm
- PTB SERIES
  - Rated Torque: 3 - 10Nm

**PARTICLE BRAKE**
- PMC SERIES
  - Rated Torque: 3 - 10Nm
- PTB SERIES
  - Rated Torque: 3 - 10Nm

**PARTICLE BRAKES**
- PMC SERIES
  - Rated Torque: 3 - 10Nm
- PTB SERIES
  - Rated Torque: 3 - 10Nm

**PARTICLE CLUTCH**
- PMC SERIES
  - Rated Torque: 3 - 10Nm
- PTB SERIES
  - Rated Torque: 3 - 10Nm

**PARTICLE BRAKE**
- PMC SERIES
  - Rated Torque: 3 - 10Nm
- PTB SERIES
  - Rated Torque: 3 - 10Nm