



## Bauer Gear Motor

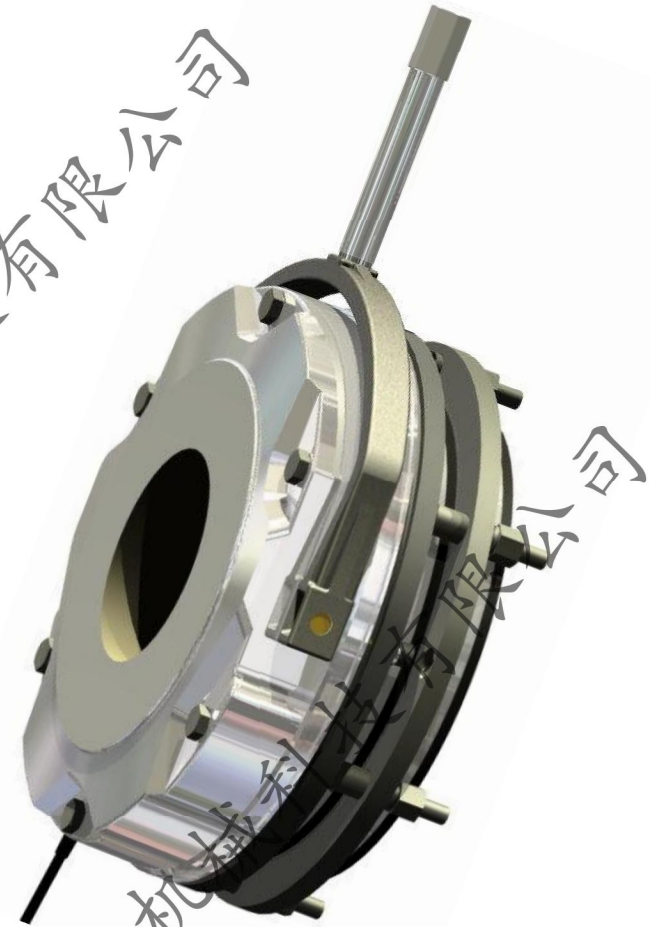
Geared Motors

Presentation for  
**Gear Motor Academy**

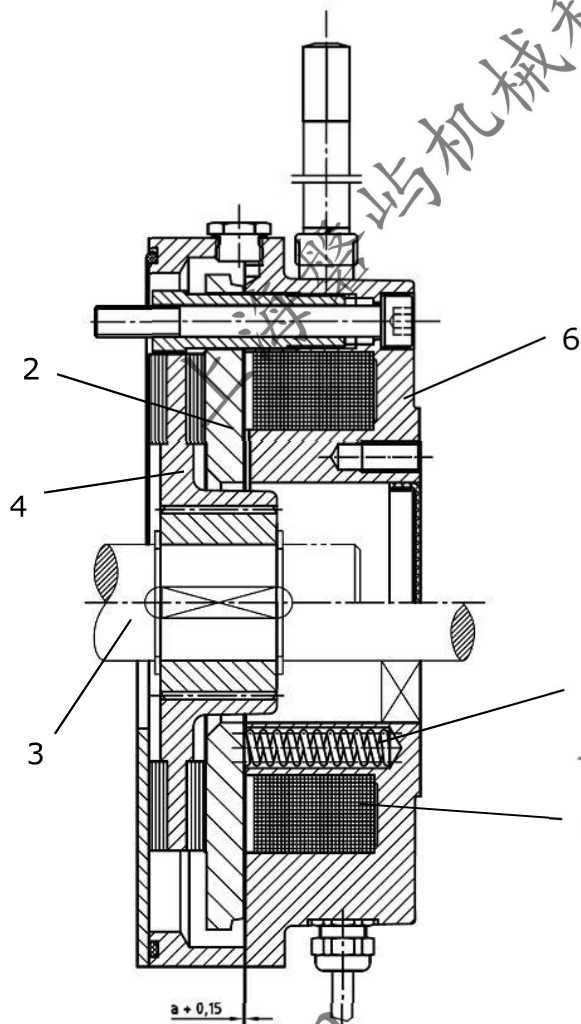
 **Bauer**<sup>®</sup>  
Gear Motor

An Altra Industrial Motion Company

# B2010 New Brakes



# Function



The springs (Pos. 1) press the axial movable pressure plate (Pos. 2) and the brake disc (Pos. 3) which is mechanically connected to the rotor shaft against the friction disc (4) or motor end shield. The brake torque is created.

When a DC voltage is placed on the coil (5) in the magnet housing (6), a magnetic force is created whereby the pressure plate is pulled against the spring force against the magnet housing. The brake disc is free to run and the brake is opened.

According to the way of use, the brakes are distinguished in their function as holding – or working brake.



# Type Designation



E S X 040 A 9 HN

HN = Manual release non lockable

HA = lockable manual release

2 to 9, X (for overexcited) adjusted brake torques

A = Design version

Brake size

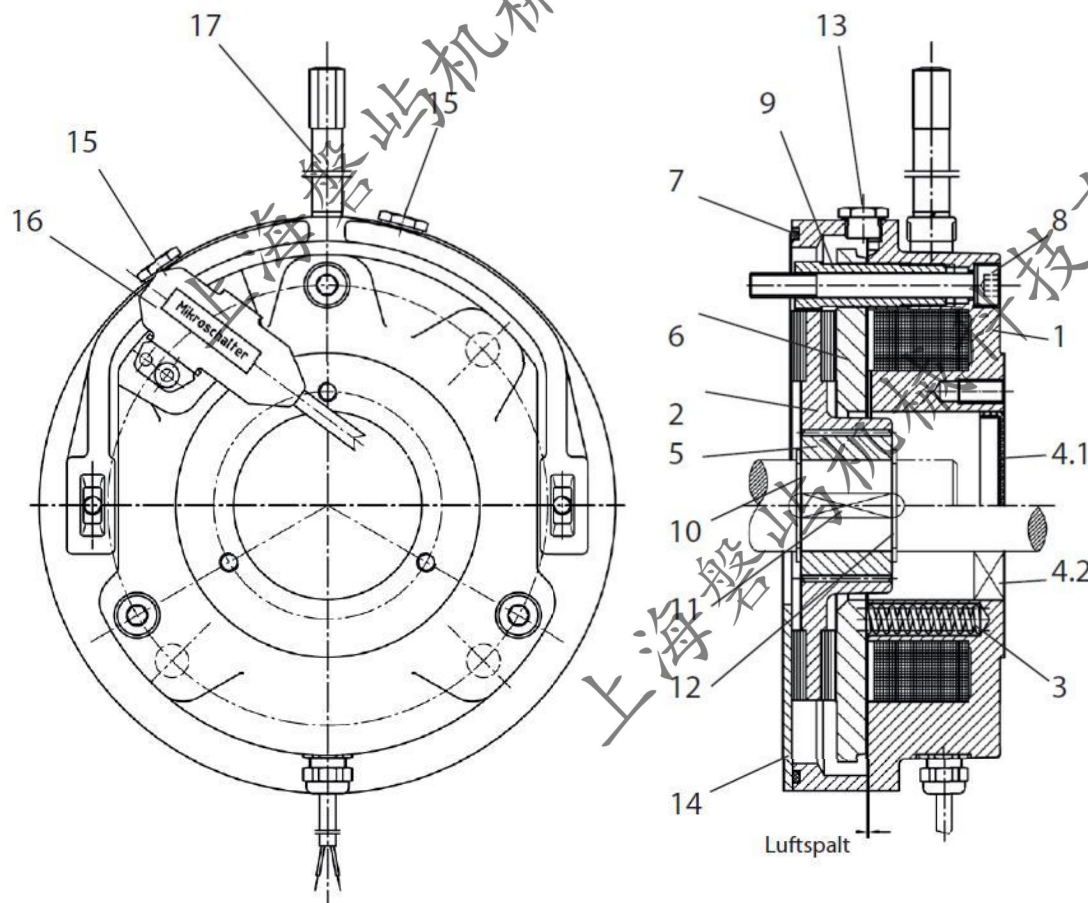
010 = 10 Nm Brake

040 = 40 Nm Brake

Brake type: S = holding brake, SX = working brake

E = Single disc brake, Z = double disc brake

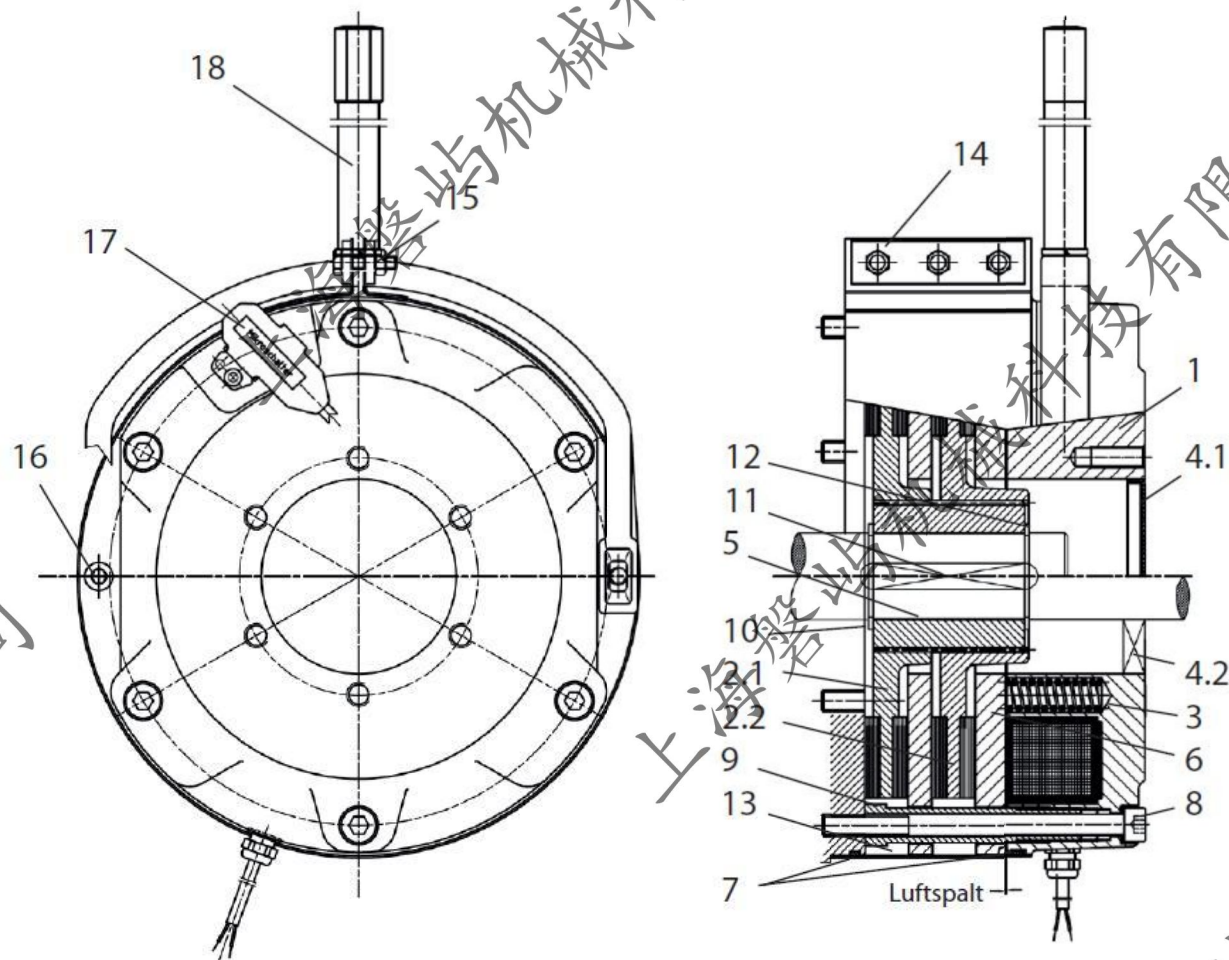
# Single Disc Brake ES(X)



## Design:

- 1 Magnet housing
- 2 Brake disc 2.1 and 2.2
- 3 Spring
- 4.1 Sealing cap for encapsulated brakes
- 4.2 Shaft seal for 2nd shaft extension
- 5 Carrier
- 6 Pressure Plate
- 7 O-Ring
- 8 Fastening bolts with copper washer
- 9 Hollow bolt
- 10 Circlip
- 11 Key
- 12 Circlip
- 13 Plug for monitoring of the air gap
- 14 Friction plate— only for motor sizes D08 and D09
- 15 Plug for monitoring of the micro switch setting
- 16 Microswitch (Optional)
- 17 Manual release (Optional)

# Double Disc Brake ZS(X)



## Design:

- 1 Magnet housing
- 2 Brake disc 2.1 and 2.2
- 3 Spring
- 4.1 Sealing cap for encapsulated brakes
- 4.2 Shaft seal for 2nd shaft extension
- 5 Carrier
- 6 Pressure Plate
- 7 O-Ring
- 8 Fastening bolts with copper washer
- 9 Hollow bolt
- 10 Circlip
- 11 Key
- 12 Circlip
- 13 Cover
- 14 Fastening bolts
- 15 Plate
- 16 Assembly screw/Assembly help
- 17 Microswitch (Optional)
- 18 Manual release (Optional)