kabea GmbH innovative Antriebe
Koßmannstraße 47 D-66538 Neunkirchen Deutschland
Tel: +49 (0)6821/919238 Fax: +49 (0)6821/919239
Email: becker@kabea-gmbh.de www.becker-antriebstechnik.org

Spring applied brakes INTORQ BFK458

Electromagnetically released spring-applied brakes are used wherever masses in motion have to be decelerated as quickly as possible or where masses must be held in a defined position. The braking force is applied by tappet springs.

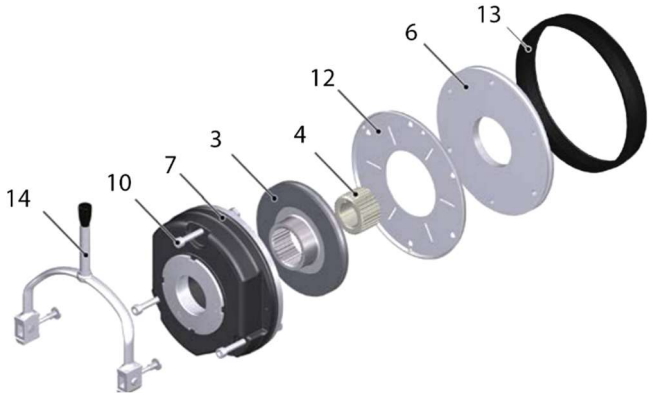
Therefore, the braking torque generated by friction locking remains available in the de-energized status – even in mains failure. The brake is released electromagnetically.

Fields of application:

Brake motors, conveyor systems, automation technology, crane construction, warehouse technology, industrial trucks, woodworking machines, stage machinery, vehicles for the disabled, controlled drives, gate drives, and escalators.

Sizes :(06, 08, 10, 12, 14, 16, 18, 20, 25)

Spring-applied brake INTORQ BFK458 Parts and accessories (for all sizes)



Pos.	Parts and accessories
07	Stator complete E or N design
03	Rotor complete (rotating braking disk)
04	Hub
06	Flange
10	Fixing screws
12	Friction plate
13	Cover ring (Seal)
14	Hand release

The main components of the BFK458

Complete brake consisting of:

- Stator E or N design
- Rotor
- Hub with keyway
- Fixing screws: when mounting the brake on motor/friction plate, flange with threaded hole or flange with through hole.

- **Stator:**
  available in voltages 24VDC, 103VDC, 180VDC and 205VDC; (other voltages on demand)
- E–Adjustable (braking torque can be reduced using torque adjustment ring)
- N– Non-adjustable

Stator design N *Stator design E*

Size	**06**	**08**	**10**	**12**	**14**	**16**	**18**	**20**	**25**
Rated torque type N [Nm]	4	10	16	32	60	80	150	260	400
Rated torque type E [Nm]	1,5.. 4	3,5.. 8	7... 16	14.. 32	25.. 60	35.. 80	65.. 150	80.. 260	175.. 400

- **Rotor complete:**
  - Rotor Standard (ST)
  - Rotor noise-reduced (ALG ST)
  - Rotor Low-wear (AL WR)
  - Rotor Low-wear and noise-reduced (ALG WR)

- Aluminum base material
- Rotor Noise-reduced: A plastic sleeve reduces the noise between rotor and hub (recommended for inverter operation). This reduces torsional backlash and increases the service life of the brake.
- Rotor low-wear: The low-wear rotor has a harder brake lining and can therefore perform more friction work before it has to be replaced.
- Rotor Low-wear and noise-reduced: combines all above advantages.

- **Hub**:
  - The braking torque that is applied to the rotor is transmitted via an axially toothed hub to the input shaft.
  - Hub with keyway with different bore diameters.

Accessories:

- Hand release: used to manually release the brake and can be retrofitted.
- Friction plate: can used if the counterfaces is smooth and machined, but is not suitable as a friction surface.
- Flange: For applications where no suitable counter friction surface is available.
- Cover ring (Seal): The cover ring prevents dust, dirt, and moisture from out of or into the braking area

Hand release

Flange

Friction plate

Cover ring