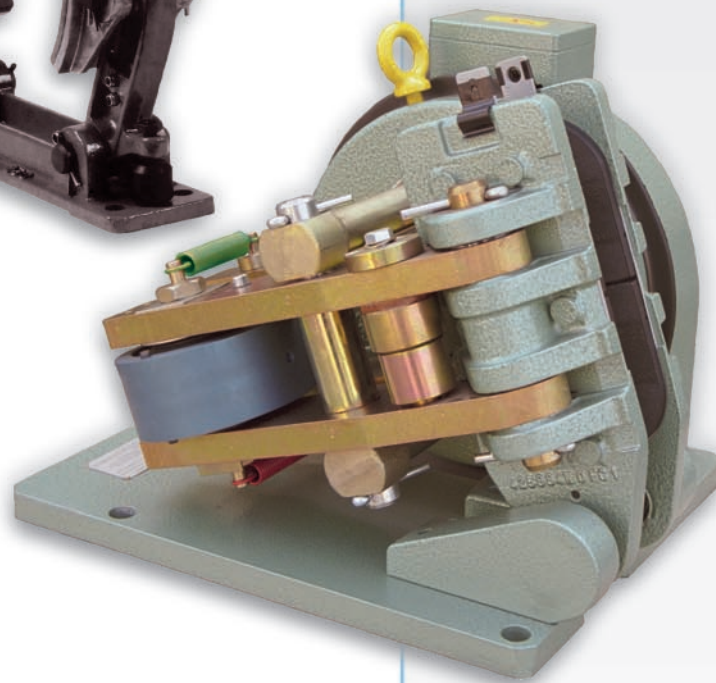
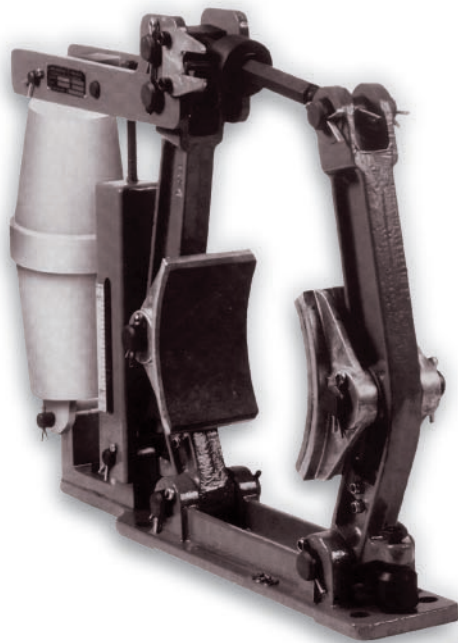


SIME-Stromag

safety in motion

Disc Brakes vs Drum Brakes

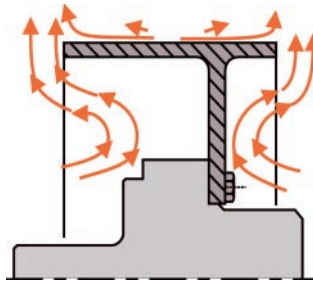


SIME-Stromag DISC BRAKES..

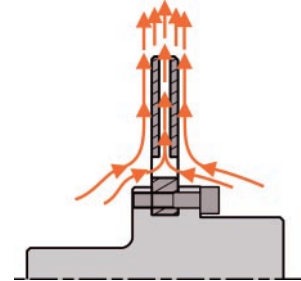
DISCS vs. DRUMS: a question of PERFORMANCE !

● Energy dissipation

Disc brakes provide larger cooling air volume and more effective radiating surfaces.
Ventilated discs are available



Drum brakes

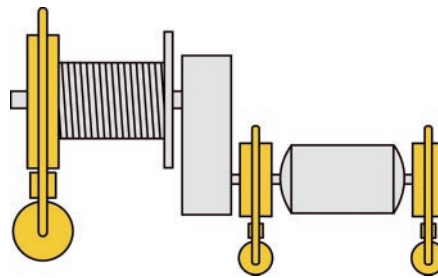
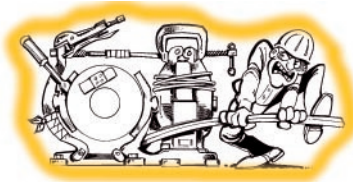


Disc brakes

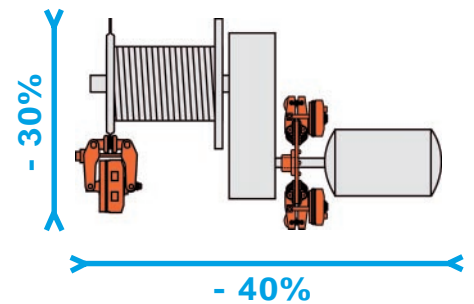
➔ Disc brakes require fewer adjustments (no drum dilatation
➔ less lining wear)

● External dimensions

Disc brakes need less physical room and clearance for maintenance



Drum brakes



Disc brakes

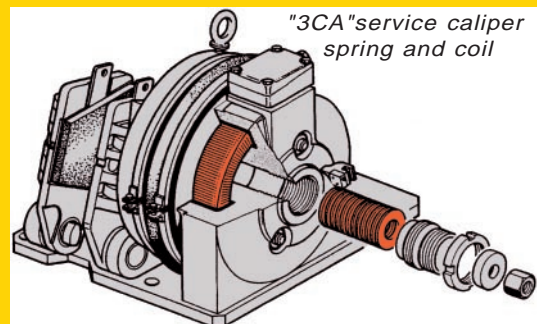
➔ Smaller motors, trolleys, couplings..

Service and Emergency brakes

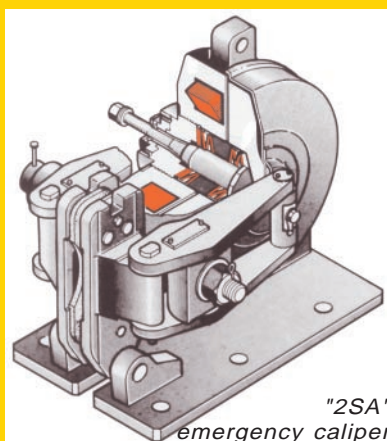
SIME-Stromag provides spring applied fail to safe Service and Emergency brakes.

Service brakes must withstand heavy day-to-day duty. SIME-Stromag service calipers feature:

- short response time, low inertia
- ventilated discs for even better energy dissipation
- large and symmetrical lining/disc clearance
- automatic wear compensator
- constant braking torque over lining life
- easy and cost saving maintenance



"3CA" service caliper spring and coil



"2SA" emergency caliper

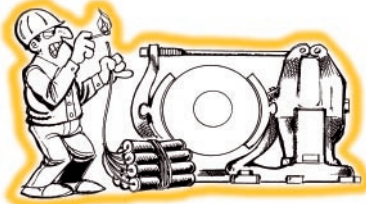
Emergency brakes protect personnel and equipments in case of drive-line failure. SIME-Stromag emergency calipers feature:

- short response time
- constant braking torque over lining life
- world's most powerful electromagnetic caliper (2SA)
- option: manual or controlled lowering; after an emergency braking, the operator can let down slowly the load to safety

.. THE RIGHT CHOICE !

● Inertia - response time

Disc brake inertia is lower than drum brake's (60% less)



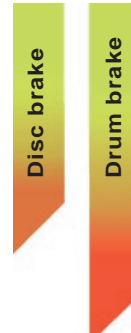
➔ *Shorter response time, no need to oversize brakes*

Stopping distance
(same braking torque)



+ 30%

Generated energy
(same braking torque)



+ 36%

Braking torque
(same stopping distance)



+ 50%

and also..

● Automatic wear compensation

➔ *Service disc brakes torque is steady over lining life*

● 12 times faster lining replacement

➔ *No need to dismount SIME-Stromag disc brakes: replacing pads takes only 5mn. (60mn. for drum brakes)*

● Standardization

➔ *Spare parts reference list may be halved*

Electromechanical or hydraulic release ?

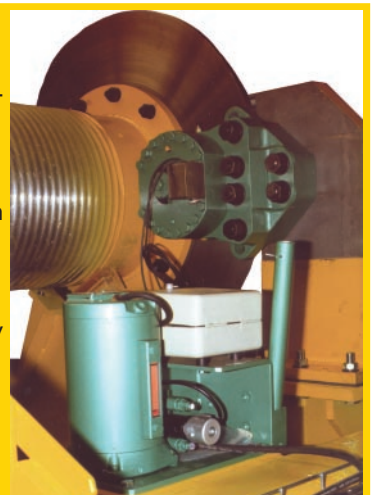
Choose release technology keeping in mind that SIME-Stromag masters both technologies: our disc brakes are the safest on the market !

Electromechanical disc brakes

Electromechanical disc brakes have a long lasting history of reliability and immunity from on-site conditions

Hydraulic disc brakes

Hydraulic disc brakes allow greater braking torques while equipment remains relatively compact



*Left: trolley of a 30 tons coil handling crane; electromechanical brakes
- 3CA /service caliper -2SA /emergency caliper
Up /right: 350 tons ladle crane fitted with hydraulic brake
- SH15 hydraulic emergency caliper + C210 power unit*

SIME-Stromag

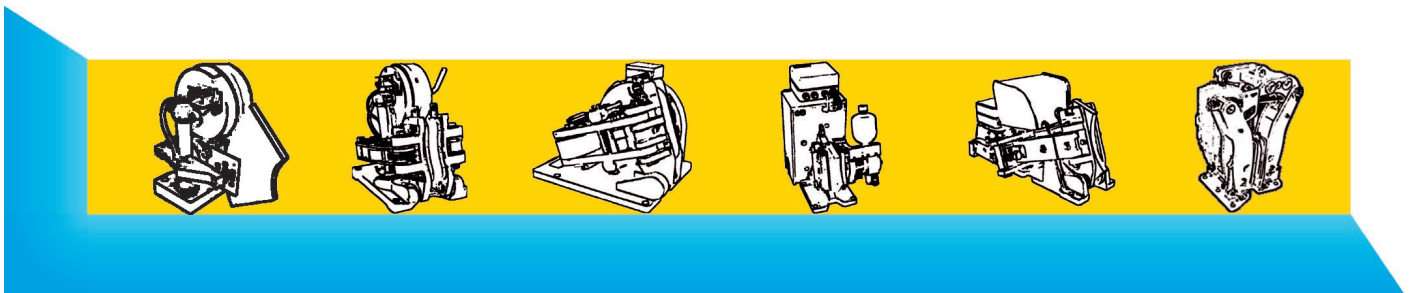
_____ **safety in motion**

SIME-Stromag, *industrial disc brakes world leader*, has developed, installed and maintained worldwide tens of thousands of safe, performant and complete braking solutions for:

- **Port cranes**
- **Coal and Nuclear power plants**
- **Windmills**
- **Steel works cranes**
- **Pedestrian transport equipments**
- **Belt conveyors**

SIME-Stromag is ISO 9001 certified

Service disc brakes



Emergency disc brakes

