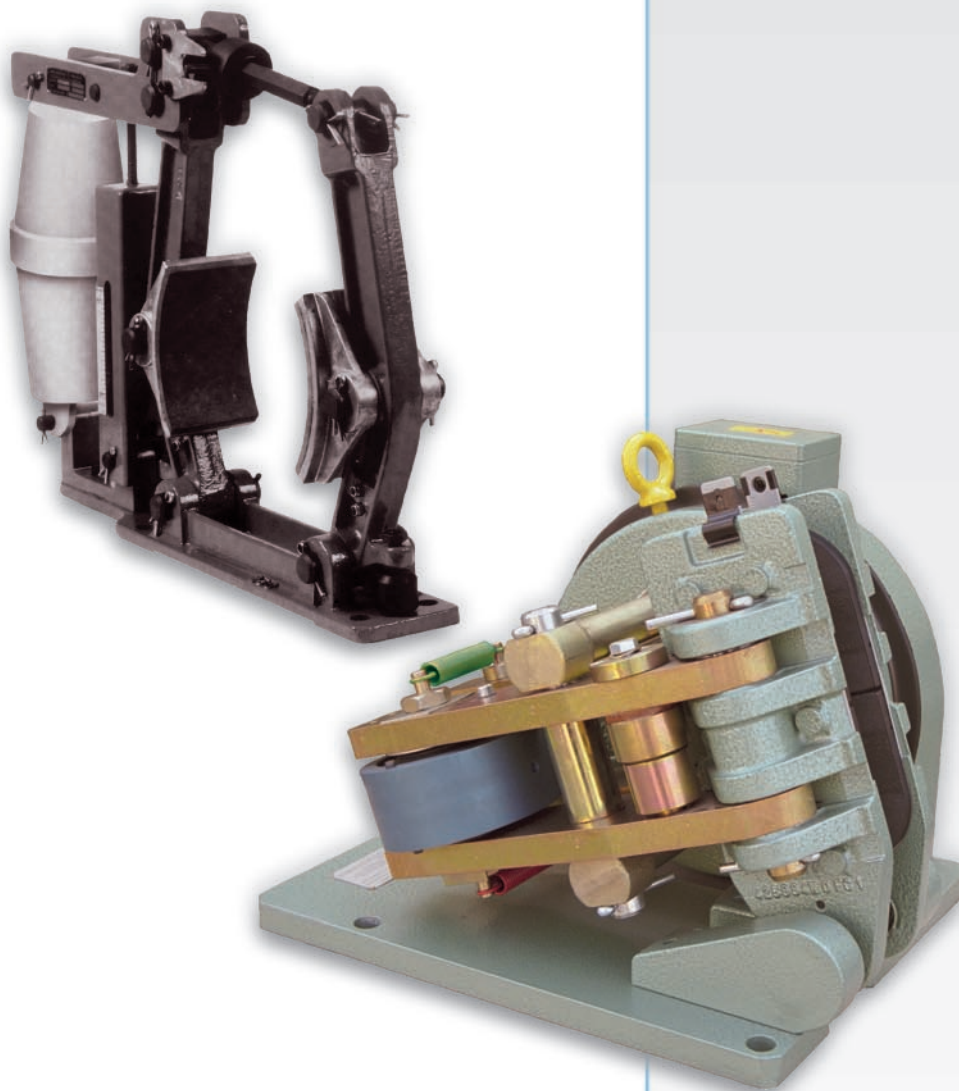


**Disc Brakes
vs
Drum Brakes**

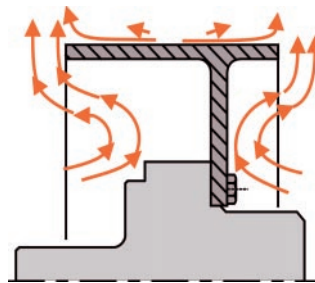


SIME-Stromag DISC BRAKES..

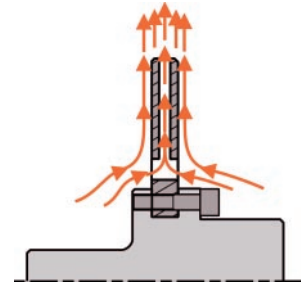
DISCS vs. DRUMS: a question of PERFORMANCE !

● Energy dissipation

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



Drum brakes

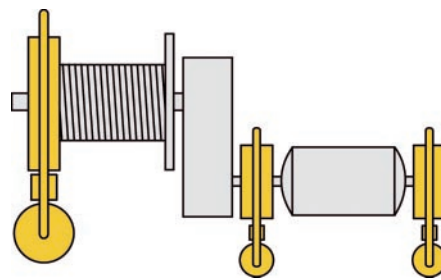
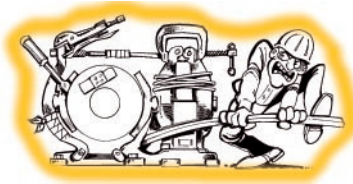


Disc brakes

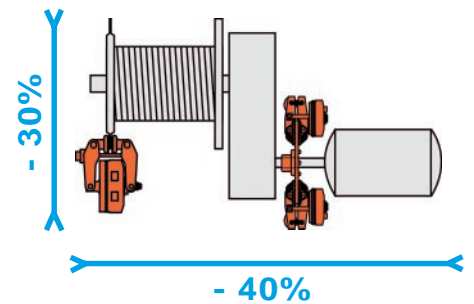
➡ *Disc brakes require fewer adjustments (no drum dilatation
➔ less lining wear)*

● External dimensions

Disc brakes need less physical room and clearance for maintenance



Drum brakes



Disc brakes

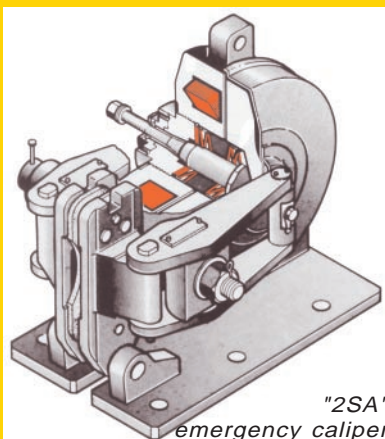
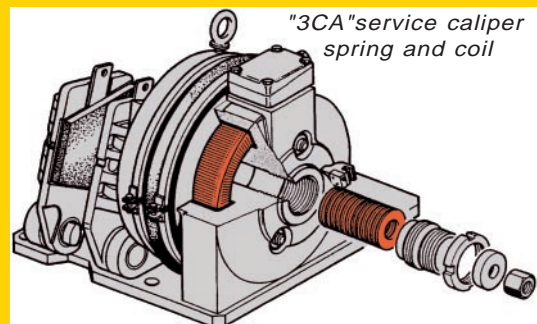
➡ *Smaller motors, trolleys, couplings..*

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



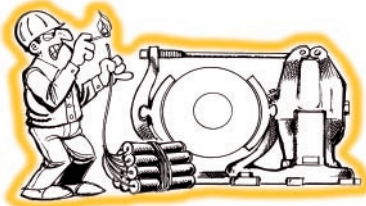
Emergency brakes protect personnel and equipments in case of drive-line failure. SIME-Stromag emergency calipers feature:

- 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)



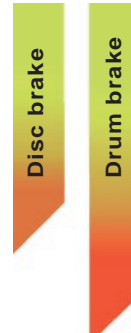
➔ *Shorter response time, no need to oversize brakes*

Stopping distance
(same braking torque)



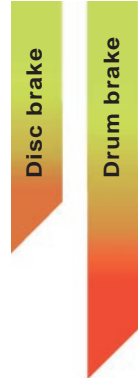
+ 30%

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 ?

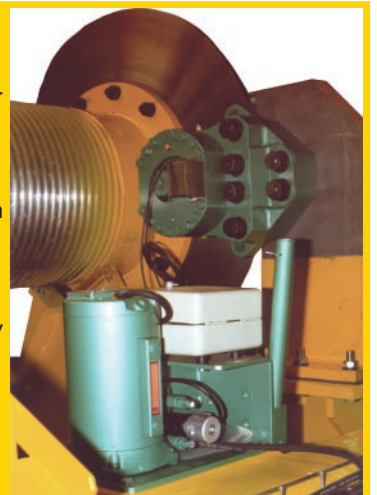
Choose release technology keeping in mind that SIME-Stromag masters both technologies: our disc brakes are the safest on the market !

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


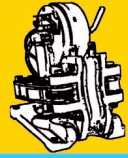
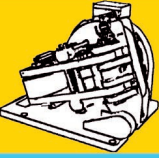
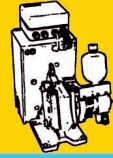
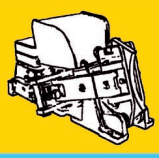

safety in motion

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

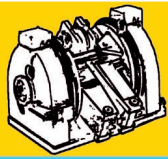
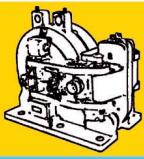
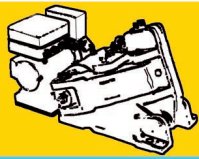
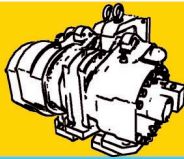
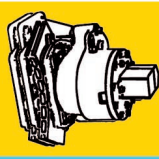
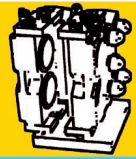
- Port cranes
- Coal and Nuclear power plants
- Windmills
- Steel works cranes
- Pedestrian transport equipments
- Belt conveyors

SIME-Stromag is ISO 9001 certified

Service disc brakes

Braking torque (N.m)						
	660-650-645 30-1100	5K-5D 65-500	2/3/4 CA 665-8000	3H-4H 550-3600	1/2/3/4 T-TX 500-17000	FAV 20/40/50 650-21300

Emergency disc brakes

Retaining force (kN)						
	OSA-OOSA 26-60	2SA 90-100	TH9 21-80	SH5-15-18-25 14-250	SHD 12-70	BCH 30-160

EXPORTATION :

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SWEDEN
SWITZERLAND
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TUNISIA
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