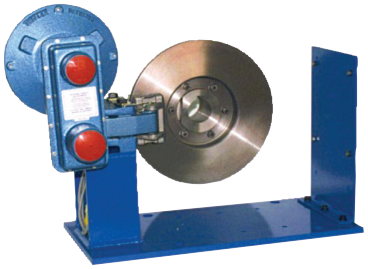
Twiflex®
Altra Industrial Motion

Application Profile



Product EMX disc brake

Application **Bridge Cranes**

Highlights

- EMX disc brake with 1.5 times the stopping power of an equivalent drum brake
- Easy installation with few modifications required
- No air gaps or basic lubrication
- Application times range from 0.15 to 0.4 seconds
- Release times range from 0.1 to 0.2 seconds

In this Sinter plant there are over 140 bridge cranes with various control schemes and load ratings. The cast floor cranes are remote or cab control, AC static step-less cranes using wound rotor motors and load brakes or wound rotor pendant control.

The crane brakes are required to operate in adverse conditions with dust and heat being the main problem. There is little time for routine maintenance and much communication and planning are needed for rare maintenance to be effective.

The hoist brakes on the Blast Furnace cranes have been changed to an electrically operated Twiflex EMX brake, which is similar to an automobile disc brake. These brakes have 1.5 times the stopping power of an equivalent drum brake, are self adjusting and produce less heat during stopping.

Smaller units can be hand carried for crane installation and easily replace drum brakes; very few modifications are needed. The EMX brakes do not have air gaps or basic lubrication and application times range from 0.15 to 0.4 seconds. Release times are 0.1 to 0.2 seconds.

Since the installation, calls on hoist brake related problems have been reduced and plans to convert all drum brakes to Twiflex EMX brakes are in place.

*Please note that the EMX product line is now the MXEA.

US (Customer Service)
+44 (0) 8894 1161
twiflex.com

Europe
+44 (0) 8894 1161

Asia Pacific
For a list of our AP sales offices:
altramotion.com/contactus

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