



Product

MXEA Caliper

Application

Gantry Crane

Highlights

- Spring-applied, electrically-released stopping and parking brake
- 6 kN max. braking force
- Patented, self-adjusting mechanism maintains a constant air gap
- AC5 solid state controller housed in a steel IP66 wall-mounted enclosure

A global producer of engineered steel and concrete pipe systems used in water and wastewater applications required a replacement brake for a large gantry crane. The crane transports steel pipe sections (up to 13 ft. in diameter) between outdoor fabrication and storage areas at their California facility. The crane's existing clipper brake was no longer operational and a new stopping and parking brake was needed for the crane's bridge as it travels along the runway rails. The brake serves mainly as a parking brake during windy conditions and had to be spring-applied so that it automatically engages when power is off at night.

Twiflex provided an MXEA spring-applied, electrically-released caliper brake together with an AC5 solid state controller to meet the application requirements. The MXEA produces an adjustable braking force up to 6 kN and is released by a 175W pancake motor that drives a ball screw mechanism to retract the brake. A patented, self-adjusting mechanism maintains a constant air gap (and consequently braking force) between pad and disc as the pads wear. The AC5 solid state controller provides a controlled and accurate stop and is housed in a strong, IP66, steel wall-mounted enclosure.

The MXEA brake's modular design and compact size allowed it to fit within the crane's limited space available. Twiflex's superior paint coating provides exceptional corrosion resistance and weatherability which will help ensure long life in this outdoor application.

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