

DC5000 Series

Cam Action Door Closer



What is the difference between cam closers and rack and pinion closers?

Cam closers use a cam and roller design as opposed to the gear teeth found in the rack and pinion.

Which closer series is more efficient?

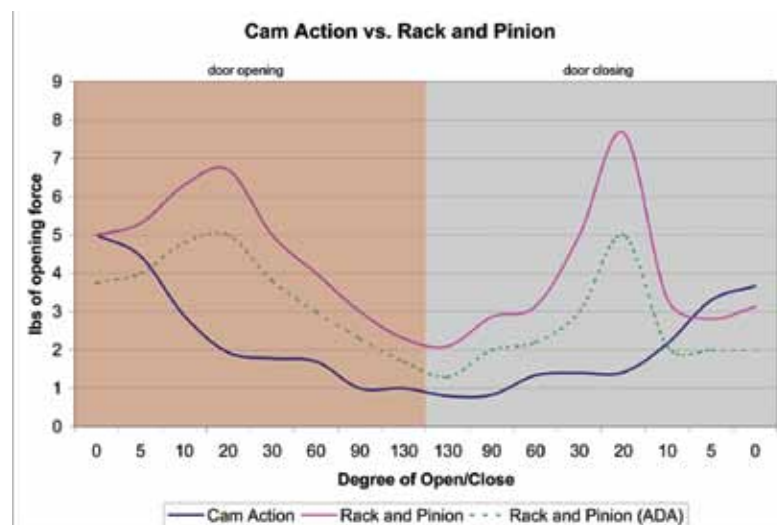
Cam closers are more efficient than rack and pinion closers because they eliminate much of the friction losses of the rack and pinion gear set.

Closing forces are applied in precisely the proper door location with the highest force being at the end of the closing cycle. The strength actually increases at "latching".

The chart below shows the clear benefit of using a cam closer over a rack and pinion. When starting both types of closers at 5 lbs of opening force, notice the rack and pinion closer (pink line) gets significantly more difficult to push open in the initial opening phase, well above ADA requirements. The cam closer (blue line) is easier to push open the further the door is opened.

Also note at the end of the cycle, the rack and pinion closes with less force than the cam closer. This means that environmental pressures could affect whether the rack and pinion latches securely. The cam closer, however, has more closing force indicating that it will overcome environmental pressures and latch securely.

When adjusted to meet ADA guidelines (dotted line), it is clear that the rack and pinion closer will not latch securely.



DISCONTINUED

frequently asked questions

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What are the recommended applications for Cam Action Door Closers?	The DC5000 cam closer can be used on stairwell doors and airport jet ways; doors that have problems meeting ADA requirements; doors subject to high HVAC and/or wind conditions.
Will a user actually "feel" the difference when opening the door?	Yes, the strength required by the user to open the door when using a cam closer is more consistent throughout the opening range. Even on wider doors, the door will open smoothly without additional effort.
Can the DC5000 be used on exterior doors?	Yes, the DC5000 can be used on interior or exterior doors.
What is the maximum degree of opening?	110°
Are plated finishes available?	No, cam closers are only available in sprayed finishes.
Are retrofit plates available?	Yes
Is the unit available for push and pull side applications?	Yes
Can this unit be used on interior doors wider than 48"?	Yes, the recommended maximum interior door width is 54".

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