

TOUGH JOBS

A **GROSCHOPP**® CASE STUDY

+ Smoke Curtain +

When it comes to safety, having a motor that is reliable is a must. After testing motors from several different manufacturers, an automated smoke curtain OEM trusted Groschopp to do the job. A top concern for this OEM was the reliability of the motor after prolonged periods of inactivity.

Because the motor would rarely be operating, cost was also a big concern. Groschopp engineers worked extensively with a cast composite material manufacturer to build a strong and inexpensive reducer housing. This, combined with a non-replaceable brush card, provided a cost-effective DC motor solution.

CHALLENGES:

- ⊕ Adaptable in a range of curtain configurations
- ⊗ Highly reliable, especially after prolonged periods of inactivity
- ⊕ Low cost
- ⊗ Small package to fit in tight space
- ⊕ Right angle configuration to work with product design

SOLUTION:

- ⊕ Composite reducer housing for strength at low cost
- ⊗ Right Angle PMDC gear motor with reduced length (compact design)
- ⊕ Brush card design (non-replaceable brushes)
- ⊗ Intermittent duty allowed a smaller motor to be used

