



CENTURION SYSTEMS

DESIGNING SMARTER ACCESS SOLUTIONS WITH SOLIDWORKS



ABOUT

Established in 1986 and based in Northriding, Johannesburg, [Centurion Systems](#) designs, manufactures, and exports access automation and security products.

The company's core range includes sliding and swing gate motors as well as access control systems, built for both local and international markets.

Centurion Systems offers a comprehensive product line, with designs that span injection-molded plastics, sheet metal, machined parts, and die-cast components.

CHALLENGE

Before adopting SOLIDWORKS in the late 1990s, Centurion Systems relied on 2D CAD. As products grew more complex, checking fit and integration between parts required extensive manual work.

This slowed down design time, increased errors, and made design changes difficult to manage.

SOLUTION

Implementing [SOLIDWORKS Standard and Premium](#), [SOLIDWORKS Visualize](#), [SOLIDWORKS Composer](#), and [SOLIDWORKS PDM Professional](#).

RESULTS

- Reduced design cycles and improved first-time fit.
- Developed the D6 SMART gate motor with improved reliability, assembly, and aesthetics.
- Improved electrical and mechanical team collaboration through ECAD/MCAD integration.
- Sped up approvals with Visualize and factory training with Composer.

“ We’ve consistently returned to **SOLIDWORKS** after evaluating other platforms. ”



Stuart Kirkman
Mechanical Manager