

This rugged, maintenance-free device puts a slower spin on turnstiles.



*The Access Rate Control System (ARCS) system is a fully mechanical, ready-to-install kit that controls the speed of a person's entry through full-height turnstiles. The faster the entry speed, the more resistance is generated by ARCS on the rotor to slow the operator. At a preset normal entry speed, the operator can pass through with minimal rotor force, and ARCS freewheels on exit. All internal components are furnished in a weather-protected steel housing. This low-cost kit can be installed quickly on new or existing turnstiles, cost-effectively providing a new layer of security.*

## FEATURES

- Fully mechanical, ready to install kit
- Automatic response to rotation speed
- Weather-protected stainless steel housing
- Customizable design that works with various turnstile models
- Permanently lubricated, sealed gearing

## BENEFITS

- No tension adjustments or sensitivity alignments in the field
- Controlled entry speeds; exit speeds unaffected
- Quick installation, low maintenance
- Cost-effective security
- No external power/control circuitry needed

## APPLICATIONS

- law enforcement
- military
- penitentiaries
- border crossings
- airports
- perimeter security

## PATENTS AND AWARDS

- The Y-12 National Security Complex has patent-pending protection for this technology – U.S. Patent Publication No. 20090084037.
- 2007 Government Use Award

## INVENTOR

Lee Bzorgi

## TRL (1-9)

9 – Actual application of the technology in its final form and in Y-12 production use.

## PARTNERING OPPORTUNITIES

*Y-12 is seeking an industry partner to fully commercialize this technology. If you would like more information, please contact:*

Gina Davis  
Director, Marketing and Commercialization  
davisgk@y12.doe.gov  
(865) 576-0181 office; (865) 963-5646 cell  
www.SecretCityIP.com