



modular control

premium cabin control system

extraordinary
expandable
experience





extraordinary
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experience

expect great
things from
Crane.

Introducing our all-new, next generation, premium modular control system, **mcX**.

mcX offers maximum flexibility to seat manufacturers, lower cost of ownership to airlines, and a new level of seating comfort to enhance the passenger experience.

mcX represents a revolution in modular control via its patent pending system architecture.

extraordinary

Revolutionary modular system architecture helps to reduce overall system hardware and system wiring complexity.

- Enhanced diagnostic capabilities and dedicated diagnostics modules provide superior troubleshooting and fault isolation capabilities
- Reduced total cost of ownership from initial purchase through in-service life cycle and support
- Smart Actuator Technology – simplifies installation
- One-touch actuator calibration



expandable

mcX is a modular system that provides maximum flexibility and scalability through a series of standard system components.

- Easily upgradable and reconfigurable
- Up to 30 modules per seat and up to 15 seats per network
- Standardized system software
- Easily customizable seat motion

experience

mcX provides a new level of control and motion accuracy to the airline passenger.

- Increased levels of motion control and precision
- Smooth and simultaneous seat motion
- Reduced system noise via quiet-operation actuators
- New modules offer additional features to enhance passenger experience

excellence

Based on over 40 years of experience, **mcX** is designed to meet the needs of the seat supplier, the airline and the passenger.



mcX System Modules

Base System

- Linear Thru-shaft Actuator
- Compact Rotary Actuator
- Full-Sized Rotary Actuator
- Power Supply Module
- Auxiliary Module
- PCU Module
- Lumbar Module

Expansion Modules

- Communications Module
- Diagnostics Module
- Compact Extension Shaft Actuator
- Legacy Module

mcX – Quiet operation with functionality to shout about.

- Enhanced system diagnostics and BITE
- Fully enclosed actuators provide quiet operation
- 100,000 seat cycles
- Enhanced mechanical robustness
- Geared for optimal motor performance
 - 5-10% increased efficiency
 - 20% increased stall torque
 - 50% increased precision
- Direct potentiometer drive
- New compact override mechanism
- Drive train designed to reduce stresses on motor planetary gearbox
- Hard-mount connections (no more pigtail harnesses)

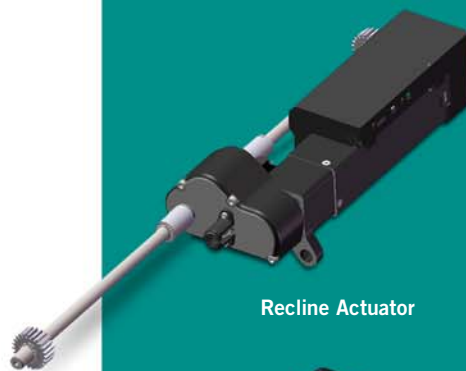
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Footrest Actuator



Legrest Actuator



Recline Actuator



Power Supply Module

patent pending



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