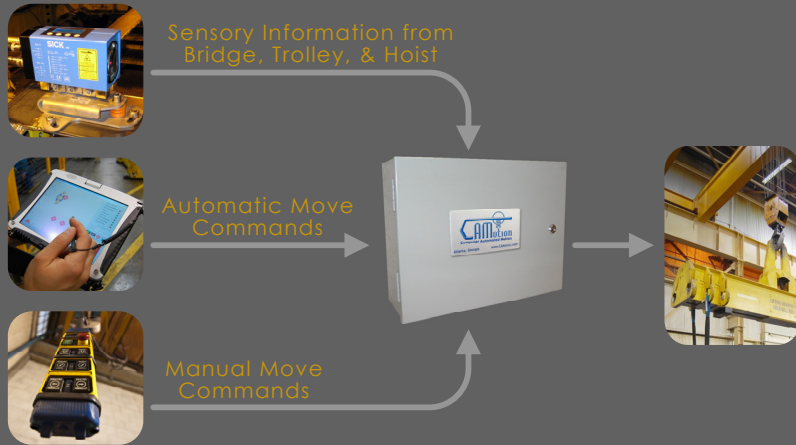


AUTOMOVE™

Automatic & precise payload positioning is possible with CAMotion crane control. Automatic motion is initiated and monitored by an operator. Placement accuracy of 1-inch is typical.

PRINCIPLE OF OPERATION



Auto Move builds on the foundation of CAMotion's proprietary anti-sway technology, which permits cranes to move without payload swing. This technology is combined with patented positioning control that ensures the payload closely follows prescribed trajectories.

Hundreds of complex move sequences can be programmed into the system. Operators initiate automatic moves by using a stationary operator interface, or portable pendant.

Move commands and sensor information are used by the control to generate reference signals that are issued to the motor drives.

BENEFITS AT A GLANCE

PERSONNEL Crane operation is transformed from a skill-based task to a supervision-based task, reducing mental fatigue, and enabling novice operators to complete complex hoisting tasks

PRECISION Automatic and accurate load placement is repeatable. Payload placement accuracy of 1-inch is achievable

PRODUCTIVITY Operator studies demonstrate that cycle time can improve by 25% when move sequences are automated

SERVICE LIFE Maintenance costs and downtime are reduced by decreasing mechanical and structural stress that can occur during manual operation

FEATURES AT A GLANCE

TIME OPTIMAL Motion paths are generated using optimization routines that command the crane to travel along the most time-efficient path

EXPANDABLE Automate a single move sequence, or hundreds of move sequences over multiple cranes

COMPATIBLE Auto Move is compatible with existing VFDs, radio and tethered pendants with continuous or multi-step functionality

OBSTACLE AVOIDANCE Stationary obstacles within the workspace are avoided during automatic moves to prevent collisions

CASE STUDY

Novelis, a manufacturer of aluminum sheet products, implemented Auto Move in their scalping process, where cranes are used for moving 25-ton ingots of aluminum.

By installing Auto Move, Novelis designed to reduce equipment damage, and permit novice crane operators to perform as well as their experienced counterparts.

"The crane operates much smoother and controlled than in the past. New operators can better simulate movements that used to be reserved for more experienced operators. This is expected to reduce equipment damage and excessive wear."

-Tim Foster, Novelis Project Engineer



MOTION CONTROL SOLUTIONS FOR INDUSTRIAL CRANES

CAMotion Inc. • Atlanta, GA • 404.874.0090 • www.camotion.com