

SAFEMOVE™

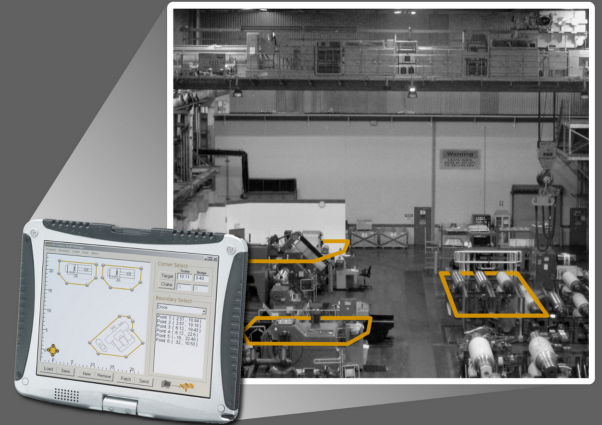
CAMotion Safe Move™ prevents collisions between payloads and surrounding equipment by erecting virtual safety walls. Walls are easily configured, and can be quickly enabled & disabled.

PRINCIPLE OF OPERATION

Safe Move can limit crane motion in multiple regions throughout the workspace. This is accomplished by erecting virtual safety walls that can surround equipment, walk ways, work stations, or other safety-critical regions.

Virtual safety walls are specified by using a portable HMI that displays real-time information about the crane and its position in the workspace.

Once enabled, Safe Move prevents the crane, and crane hook from penetrating into regions surrounded by safety walls. This is because Safe Move slows and stops the crane before it crosses a safety wall, not after.



BENEFITS AT A GLANCE

SAFETY Safety boundaries can enclose equipment, product, and personnel to prevent the crane and payload from penetrating into these regions

PRECISION AT PAYLOAD Safe Move can be used in conjunction with CAMotion's anti-sway technology. This combination prevents both the crane *structure* and the crane *hook* from penetrating a safety wall

PERSONNEL Operators can manipulate payloads more quickly and confidently when safety walls are erected around costly and sensitive equipment

SMOOTH & PRECISE STOPPING Safe move does not abruptly stop crane motion when a safety wall is crossed. Instead, sophisticated motion control slows, and then stops crane motion *at* the safety boundary, not after

FEATURES AT A GLANCE

EXPANDABLE Hundreds of safety walls can be erected in the workspace. They can be enabled and disabled together or in configurable sets

MINIMAL HARDWARE Safe Move utilizes crane-mounted laser sensors for position measurement. This eliminates runway-mounted limit switches, simplifies wiring, and enables quick commissioning

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

VERSATILE Safety walls can enclose arbitrarily shaped regions within the workspace. This means that the safety walls do not have to be aligned with the bridge and trolley travel directions

CASE STUDY

Logan Aluminum is a manufacture of aluminum sheet products. At the manufacturing headquarters in Russellville, KY, cranes are used extensively for production and maintenance.

One such crane is used to transfer massive steel rolls from holding areas to grinding machines. Occasional collisions with the machines motivated Logan to implement Safe Move.

During operation with Safe Move, payload-to-grinding machine collisions are eliminated.



MOTION CONTROL SOLUTIONS FOR INDUSTRIAL CRANES

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