

RAYNOK MOTION CONTROL

R&M Materials Handling, Inc.



Stagemaker® SR entertainment motors and accessories meet today's demanding market requirement and lead the way to the future. Our entertainment motors are designed to handle stage and theatrical equipment and enable the safe and accurate position of speakers, lighting systems, stage sets, and sceneries.

The innovative design of Stagemaker SR entertainment motors make them ideal for a variety of applications. The SR's light weight makes it ideal for touring events, reducing time and improving ergonomics for riggers. Its compact size permits it to fit inside truss structures, and its quietness makes it ideal for operation during performances.

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THE APPLICATION:

The project required eight electric chain motors to move video projectors to various pre-set levels during worship services in a Houston, TX church.

Growth & Impact



8 MOTORS

Providing accurate positioning of projectors



RAYNOK MOTION CONTROLS

Pre-programmed motion controls cues the motors individually, simultaneously or by groups



QUIET OPERATION

Sound intensity less than 75 db

R&M'S STAGEMAKER® MOTORS RAYNOK MOTION CONTROL

From set up to show time, the Stagemaker SR motor brings you world-class performance.

THE CHALLENGE:

The key requirements for the equipment were the ability to have pre-programmed cues, the repeat accuracy of the motor's hook positions, the ability to adjust the hook positions if needed during and between cues of the service, and to not hear the motors while in operation.

THE SOLUTION:

R&M provided the Stagemaker configuration C concert motors with programmable control that have a pulse sensor located on the chain sprocket providing a signal to the Raynok motion control system by Niscon Inc. The controller and software use the pulses provided by the hoist to continuously calculate the position of the hook for each hoist. Hoist selection can be defined for individual or group operation. The preselection, height adjustment, and delays can be set separately in order to create pre-programmed cues in accordance with the various requirements for each service. The complete system can provide hook position accuracy of ¼" (+/- 15%) and a sound intensity during operation of less than 75 db.



THE RESULTS:

The system provided a reliable and affordable means to enhance the quality and efficiency of vertical movement to pre-programmed cues while providing an easier installation and quieter operation during service.

