

Rescue Hoist Simulator

For Any Helicopter Model

ACME's Rescue Hoist Simulator provides realistic training for lifesaving operations right in your hanger, training room, or simulator site.

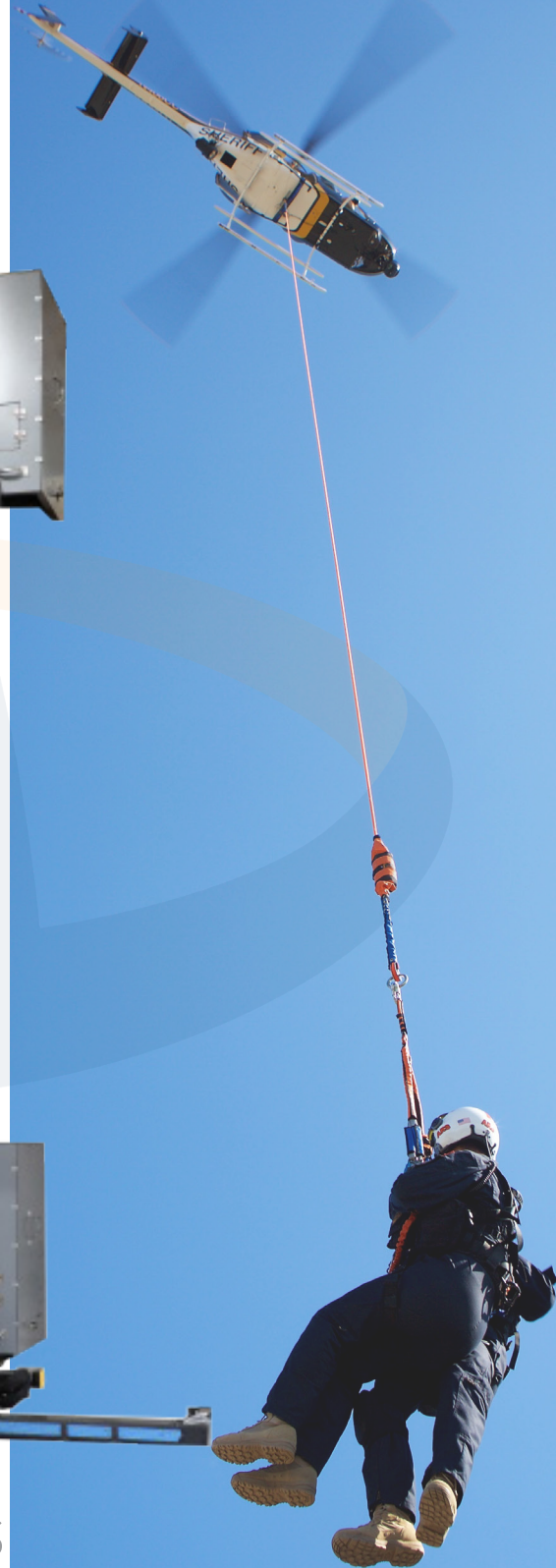
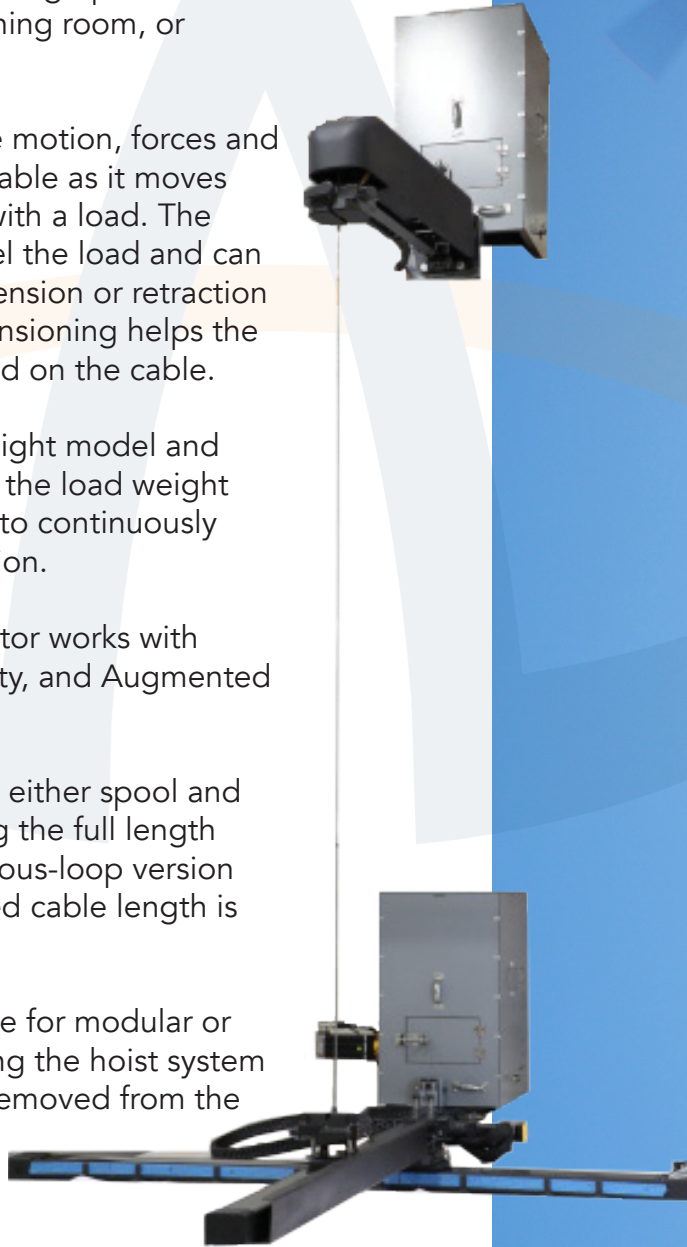
The system emulates the motion, forces and feel of the rescue hoist cable as it moves beneath the helicopter with a load. The operator can see and feel the load and can control the speed of extension or retraction of the cable. Dynamic tensioning helps the operator monitor the load on the cable.

It uses signals from the flight model and control inputs, as well as the load weight and length of the cable, to continuously calculate the cable position.

The Rescue Hoist Simulator works with Direct-View, Virtual Reality, and Augmented Reality visual systems.

Options are available for either spool and drum precisely emulating the full length of the cable or a continuous-loop version where extended/retracted cable length is calculated digitally.

Options are also available for modular or stowable systems allowing the hoist system to be easily inserted or removed from the fuselage trainer.




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System Components

- Winch Assembly
- X-Y Shuttle Table
- Drums (as applicable)
- Upper and Lower Mount
- Electronics Chassis
- Pendant Control
- Power and Signal Cables

Power

Can use a range of input power. Contact ACME with specific power requirements.

System Includes

- Technical Manuals
- 1-Year Factory Warranty

Options Available

- On-site Installation
- Operation and Maintenance Training

ACME can emulate the overhead winch and swing arm enabling trainees to practice deploying and stowing the hoist as well as practicing load management. The cable is controlled by the pendant that mimics the actual controls in the helicopter. Hoist system operators have full control of extension and retraction and the speed of the cable operations. And, just as in the aircraft, the hoist system slows when the cable reaches full extension and retraction.

At the bottom, the large X-Y motion shuttle, nearly 2 meters long, provides full-size motion areas for even the largest load excursions. Safety systems continuously monitor the performance and safely cut power to prevent damage or injury.

