

Heavy grips and accessories can be awkward to install in mechanical testing machines, and safety regulations limit the amount that people can lift without risk of injury. For these reasons it is typically necessary to use an external lifting system – like a forklift or a crane – to lift and install grips or accessories weighing much more than 15 kg (30 lbs). This is typical for testing machines with capacities of 100 kN (22,000 lbf) and higher, thus requiring planning and working with maintenance or facilities departments, all of which consumes valuable testing time.

The Instron® GripHoist is designed to make the installation of heavy grips possible without the use of external lifting systems. It is intended for lifting accessories weighing up to 250 kg (500 lbs) into electromechanical or servohydraulic testing systems that are floor mounted (not table mounted), and with capacities of 100 kN (22,000 lbf) or more.

When used with Electromechanical testing systems, the moving crosshead is used as the actual lifting mechanism, typically with a fixed length strap.

When used with servohydraulic testing systems, the upper crosshead remains fixed, and a “come-along” or other kind of hoist is used to raise and lower the accessory.

Features and Benefits

- Easy to put on the machine and to remove: the rails and carriage are held on by captive thumbscrews, and each of the 2 hanging plates require 2 bolts
- No need for a forklift or crane for inserting and removing heavy accessories
- Suitable for Electromechanical Systems (shown) and Servohydraulic Systems
- An easy-to-remove cradle/central I-bolt allows the hangers and rails to remain mounted on the machine when not in use
- Simple to operate
- Enhances safety for the operators by eliminating heavy manual lifting



Specifications

CP111030 Grip Hoist

Designed for Instron® electromechanical floor models and floor-mounted servohydraulic machines with the four standard bolt holes underneath the crosshead.

Notes:

1. This kit includes all the hardware and slides to mount the hoist on the Instron testing machine plus a lifting strap; the kit does not include any hardware for lifting the accessory.

Process

1. Install the GripHoist into the four standard holes on the underside of the crosshead, on either side of the load cell. Extender brackets establish a bridge to clear the load cell.
2. Bring the heavy accessory to the front of the machine on a roller cart or equivalent.
3. Lower the moving crosshead, extend the hoist forward, and strap to the accessory.
4. Raise the accessory to the desired height and push it back into the axis of the testing machine.
5. Lower the accessory into the desired position and release from the hoist.
6. The hoist can then be removed or left in place for future use.

Since the mounting brackets that attach the hoist to the crosshead are extended to fit an alignpro, they are too long to remain in place after installing the grip. (If no alignpro is in place)



CP111030 Grip Hoist



CP111030 Grip Hoist with Extended Arms



Raise Accessory with the Hoist



Push the Hoist Back in the Axis of Testing Machine



Lower the Accessory into the Desired Position and Release from the Hoist



The Hoist can be Removed or Left in Place for Future Use

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