

11450.2A Reference Paragraphs	RCDR Topic	RCDR Number
2-4.2.1(f) 2-4.2.1(n) 2-7.4(f,g)	Commercial package hoists for ordnance applications: brake housing material and brake manual release.	23-064

**BACKGROUND FOR ALL QUESTIONS AND ANSWERS**

The intent of NAVCRANECENINST 11450.2A with respect to packaged hoist design and general purpose service, non-ordnance applications is to require commercial configurations with available standard options, not custom engineered/fabrication solutions. There are additional supplemental requirements for non-routine environments or unique, dedicated service which may require additional considerations when selecting equipment vendors and commercial configurations. These questions and answers apply to hoists in ordnance handling service.

**QUESTION**

Q1: NAVCRANECENINST 11450.2A, Section 2-4.2.1(f), requires all motor mounted brakes to have a disc brake housing constructed of steel or ductile/malleable cast iron. Commercial packaged hoist manufacturers typically offer brakes made from gray cast iron or cast aluminum, with steel or ductile cast iron not a standard option. Would a brake equipped with a gray cast iron or cast aluminum housing be acceptable for these applications?

**ANSWER**

A1: Yes, for travel functions only. At this time, materials for hoist brakes must still comply with the supplemental requirements of 2-7.4(f) and (g). It should be noted that housings are often called end plates, enclosures, or covers; the term “housing” is intended to refer to a load bearing item.

**QUESTION**

Q2: NAVCRANECENINST 11450.2A, paragraph 2-4.2.1(n), requires spring-set brakes be equipped with a manual release mechanism that automatically resets when power is applied to the brake. Powered chain hoists frequently do not provide this capability as a standard offering. Can chain hoists be used if they do not have manual release mechanisms on spring-set brakes?

**ANSWER**

A2: Yes. A manual release is recommended but not required for powered chain hoists.