



SPECIFICATION – SPECIAL HOOKS
Crosby Machined Shank Hooks
AH and TCR Hoists

1.0 Background

- 1.1 Harrington Hoists, Inc. requires the adaptation of shank style Special Hooks for application with Harrington’s AH and TCR air hoist product. The Special Hooks of this specification will have their shank machined to fit the yoke of the Harrington hoist.

2.0 Scope

- 2.1 This specification applies to shank style hooks to be machined to fit as replacements for the top and/or bottom hooks of Harrington’s AH and TCR air hoist product.
- 2.2 This specification applies to the Crosby Bullard Shank Hook and the Crosby Shur-Loc Shank Hook.

3.0 Product Description

- 3.1 The Crosby Bullard Shank Hook is a Crosby Golden Gate Hook with a self-closing gate. It is as described in Reference 5.1 of this specification with the exception that the shank will be machined per this specification, and not threaded.
- 3.2 The Crosby Shur-Loc Shank Hook is a Crosby hook product with a positive lock latch that is self-locking when the hook is loaded. It is as described in Reference 5.1 of this specification with the exception that the shank will be machined per this specification.

4.0 Specifications

- 4.1 The Special Hooks shall be fabricated from Crosby’s line of shank hooks and shall be machined by Crosby in accordance with Hook Shank Profile Drawings of this specification.
- 4.2 Special Hooks furnished under this specification shall comply with the ASME B30.10.
- 4.3 Special Hooks furnished under this specification shall swivel smoothly and easily while loaded to the rated capacity for the Hook-to-Hoist Application.
- 4.4 For the Hook-to-Hoist Applications of this specification the Special Hooks shall have a Working Load Limit equal to or greater than the hoist’s rated capacity and the Hook-to-Hoist Application shall meet the requirements of the applicable ASME standards in accordance with paragraph 4.5 of this specification.

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- 4.5 The applicable ASME standards are as follows:
 - 4.5.1 ASME B30.16
 - 4.5.2 ASME HST-5M
 - 4.6 Crosby shall submit documentation as follows: note: for AH hoist, omit 4.6.4 only and for TCR hoist, omit 4.6.3.
 - 4.6.1 Certified Drawings for the Hook-to-Hoist Applications of this specification. Drawings shall be fully dimensioned and shall include Part Identification, Material Specification, Working Load Limit, Ultimate Strength, Yield Strength, Hardness, and Chemical Composition.
 - 4.6.2 Certification of compliance for paragraph 4.4 of this specification.
 - 4.6.3 **(AH hoist hooks only)** Separate certifications shall be issued that Special Hooks furnished under this specification comply with ASME B30.10.
 - 4.6.4 **(TCR hoist hooks only)** Separate certification that Special Hooks furnished under this specification successfully underwent proof testing in accordance with ASME B30.10.
 - 4.6.5 Description of the Quality Assurance System to which the Special Hooks furnished under this specification are subject.
 - 4.6.6 Crosby Warranty for the product furnished under this specification.
 - 4.7 Crosby shall perform all modifications to the Special Hooks that are required in order to comply with this specification.
 - 4.8 Special Hooks furnished under this specification shall be permanently marked/engraved/stamped with the applicable Harrington Part Number for the Hook-to-Hoist Application.
- 5.0 References
- 5.1 The Crosby Group, Inc. General Catalog, 2000, pages 87-107 and pages 170-173.
 - 5.2 ASME B30.10, "Hooks", 1999 version.
 - 5.3 ASME B30.16, "Overhead Hoists (Underhung)", 2001 version.

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- 5.4 ASME HST-5M, “Performance Standard for Air Chain Hoists”, 1999 version.
- 5.5 Harrington Hoists, Inc. EDOC153 and EDOC0251 (for specifications such as lifting speed for AH and TCRM air chain hoists).