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Lineman's Web Strap Hoist

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Material Specifications

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072-01684	9	02/13/2023
072-84250	1	02/13/2023



Equipment Specification
Document No.: 4350.296
Originating Department: Distribution Engineering



Lineman's Web Strap Hoist

1. Introduction

This is a general specification that covers the minimum requirements for the lineman's web strap hoist used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to PREPA / LUMA on previous orders, will not have to furnish samples at bid opening. The material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

5. Quantity/Literature

Descriptive and technical literature must be supplied by vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of PREPA's and/or LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 4.2. Packaging labels and tags shall be waterproof.

5. Equal or Approved Equal to

Lincoln Hoist, see Table 1 for specific model.



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6. Packaging

All material and equipment shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

7. Number Per Package (Logistics)

One (1) unit per box or as requested by LUMA Energy.

8. Acceptance Criteria

- 8.1. Test required: certified by external laboratories.
- 8.2. Latest applicable codes, standards, and other regulations:
 - a. ASME B30.21

9. Description

- 9.1. Web strap hoist for lifting of heavy equipment.
- 9.2. Shall have castings made of corrosion resistant aluminum alloy with stainless steel springs, shaft and bronze bushings with maintenance free bearings lubed for life.
- 9.3. Hoist shall meet the minimum capacity for single- and double-line applications, as specified in Table 1. The hoist shall indicate these rated capacities.
- 9.4. Shall have a double-interlocking pawl system, designed for 2-way/2-capacity rigging.
- 9.5. All hooks shall be drop forged, heat-treated steel that swivel 360 degrees for positive strap alignment with hot stick operated safety latches and hot stick rings.
- 9.6. Shall have an aluminum alloy winding wheel for take up of slack, easy positioning, and fast rewinding.
- 9.7. Synthetic web strap shall be 1-1/2 in. wide polyester.
- 9.8. Shall have a double-flanged drum to protect web strap from ratchet teeth.
- 9.9. Hoist shall have an overload warning system that uses a breakable stress link with an overload link that allows operator to safely back off the load without breaking handle.
- 9.10. Shall be furnished with a reversible 1-1/4 in. OD fiberglass handle with 2 spare stress links. See Table 1 for the specific minimum length of the handle.
- 9.11. Shall be able to meet the lifting distance requirement as specified in Table 1.



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- 9.12. Lynch pin block shall have a one pin pull disconnect ring for rapid release.
- 9.13. Hoist shall have open frame construction for easy inspection and maintenance.
- 9.14. Table 1: Item Characteristics and Warehouse Information

Warehouse Number	Asset Suite	Handle Length (Inches)	Single Line		Double Line		Suggested model
			Capacity (Lbs)	Lift Distance (ft.)	Capacity (Lbs)	Lift Distance (ft.)	
072-01684	55334	36	2,000	10	4,000	5	4W12HBL
072-84250	84250	20	1,500	7	3,000	3.5	3W08SHBL

10. Inspection

The acceptance of any material or equipment shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such materials were found later to be defective.

11. Proposal Information

- 11.1. Submitted proposals must include:
 - a. Technical information
 - b. Table of Compliance completed by the bidder with reference. (See Appendix 1)

— End of Specification —



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Appendix



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Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P/F)
1	Specification	The Proponent complies with the corresponding specification document.	
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI, ASTM)	
3	Material	<ul style="list-style-type: none">• All hooks shall be drop forged, heat-treated steel that swivel 360 degrees for positive strap alignment with hot stick operated safety latches and hot stick rings.• Castings made of corrosion resistant aluminum alloy with stainless steel springs, shaft, and bronze bushings.• Aluminum alloy winding wheel for take up of slack, easy positioning, and fast rewinding.	
4	Strength characteristics	<ul style="list-style-type: none">• Shall meet minimum capacity for single- and double-line applications, as per Table 1.• Meet the lifting distance requirement as specified in Table 1.	
5	Handles characteristics	Reversible 1-1/4 in. OD fiberglass handle with 2 spare stress links. See Table 1.	
6	Web Strap	<ul style="list-style-type: none">• Synthetic web strap shall be 1-1/2 in. wide polyester.• Shall have a double-flanged drum to protect web strap from ratchet teeth.	
7	Safety	<ul style="list-style-type: none">• Overload warning system that uses a breakable stress link with an overload link that allows operator to safely back off the load	
8	Construction and operation	<ul style="list-style-type: none">• Double-interlocking pawl system, designed for 2-way/2-capacity rigging.• Lynch pin block shall have a one pin pull disconnect ring for rapid release.• Hoist shall have open frame construction.	











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Final Audit Report

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