

1.0 PURPOSE

1.1 Summarize compliance of Harrington's products with industry standards.

2.0 SCOPE

2.1 Includes lever hoists, manually operated and powered chain hoists, powered wire rope hoists, manually operated and powered trolleys, and overhead traveling bridge cranes.

3.0 LEVER HOISTS

3.1 Harrington's LB and LX Lever Hoists are produced to comply with the following standards:

3.1.1 ASME B30.21, "Safety Standard – Manually Lever Operated Hoists"

3.1.2 ASME HST-3, "Performance Standard for Manually Lever Operated Chain Hoists"

4.0 MANUAL OPERATED HOISTS

4.1 Harrington's CF, CB, RCB, and CX Hoists are produced to comply with the following standards:

4.1.1 ASME B30.16, "Safety Standard – Overhead Hoists (Underhung)"

4.1.2 ASME HST-2, "Performance Standard for Hand Chain Manually Operated Chain Hoists"

4.2 Harrington's RCB hoist is also produced to comply with the following standards and directives:

4.2.1 ATEX directive 2014/34/EU and marked Ex II 2G c IIB T4; Ex II 2D c T135C

4.2.2 EN13463-1:2009, "Non-electrical equipment for use in potentially explosive atmospheres. Basic method and requirements"

4.2.3 EN13463-5:2009, "Non-electrical equipment for use in potentially explosive atmospheres. Protection by constructional safety 'c'

5.0 ELECTRIC POWERED CHAIN HOISTS

5.1 Harrington's ER, NER, ER2, NER2, SNER, ED, EQ, and SEQ Hoists are produced to comply with the following standards:

5.1.1 NFPA 70 "National Electric Code"

5.1.2 ASME B30.16, "Safety Standard – Overhead Hoists (Underhung)"

5.1.3 ASME HST-1, "Performance Standard for Electric Chain Hoists"

5.1.4 ER2 and NER2 hoists in standard configurations (including certain options) are certified to UL 1340 "Standard for Hoist"

5.1.5 EQ and SEQ hoists in standard configurations (including certain options) are certified to UL508, 508A, 1004 and CSA C22.2 NO.33, 14-13, 66

6.0 ELECTRIC POWERED WIRE ROPE HOISTS

- 6.1 Harrington's RY, RHA, RH and RHN Hoists are produced to comply with the following standards:
 - 6.1.1 NFPA 70 "National Electric Code"
 - 6.1.2 ASME B30.16, "Safety Standard – Overhead Hoists (Underhung)"
 - 6.1.3 ASME HST-4, "Performance Standard for Overhead Electric Wire Rope Hoists"
 - 6.1.4 RY hoists are hoists in standard configurations (including certain options) are certified to UL 1340 "Standard for Hoist", CSA 22.2 NO.33

7.0 AIR POWERED HOISTS

- 7.1 Harrington's AL/W/S, TCR, TCR Large Capacity, AH, and TCS Hoists are produced to comply with the following standards:
 - 7.1.1 ASME B30.16, "Safety Standard – Overhead Hoists (Underhung)"
 - 7.1.2 ASME HST-5, "Performance Standard for Air Chain Hoists"
- 7.2 Harrington's AL/W/S hoists are also produced to comply with the following standards/directives:
 - 7.2.1 ATEX directive 2014/34/EU
 - 7.2.1.1 AL/W is marked Ex II 2GD c T5 IIB T100C
 - 7.2.1.2 AS is marked Ex II 2GD c T5 IIC T100C
 - 7.2.2 EN13463-1:2009, "Non-electrical equipment for use in potentially explosive atmospheres. Basic method and requirements"
 - 7.2.3 EN13463-5:2009, "Non-electrical equipment for use in potentially explosive atmospheres. Protection by constructional safety 'c'
 - 7.2.4 EN 1127-1:2011, "Explosive atmospheres. Explosion prevention and protection. Basic concepts and methodology."
 - 7.2.5 Additionally, when an overload limiter (for 1t and above) and an e-stop is included, the hoist/trolley assembly complies with:
 - 7.2.5.1 European Machinery Directive, 2006/42/EC

8.0 TROLLEYS

- 8.1 There is no standard dedicated specifically to trolleys. The primary sources of requirements pertaining to trolleys are those standards dealing with cranes. Harrington's manually operated, electric-powered, and air-powered trolleys are produced to comply with trolley related requirements found in the following standards:
 - 8.1.1 OSHA Section 1910.179 of Title 29, "Occupational Safety and Health Regulations – Overhead and Gantry Cranes"
 - 8.1.2 NFPA 70, "National Electrical Code"
 - 8.1.3 ASME B30.2, "Safety Standard – Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Hoist)"

- 8.1.4 ASME B30.11, "Safety Standard – Monorails and Underhung Cranes"
- 8.1.5 ASME B30.17, "Safety Standard – Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)"
- 8.2 Harrington's RPTS/RGTS and MAL/MAS trolleys are also produced to comply with the following standards/directives:
 - 8.2.1 ATEX directive 2014/34/EU
 - 8.2.1.1 RPTS/RGTS is marked Ex II 2G c IIB T4; Ex II 2D c T135C when grouped with RCB hoists
 - 8.2.1.2 RPTS/RGTS is marked Ex II 2G c IIB T5; Ex II 2D c T100C when grouped with AL/W hoists
 - 8.2.1.3 MAL is marked Ex II 2GD c T5 IIB T100C
 - 8.2.1.4 MAS is marked Ex II 2GD c T5 IIC T100C
 - 8.2.2 EN13463-1:2009, "Non-electrical equipment for use in potentially explosive atmospheres. Basic method and requirements"
 - 8.2.3 EN13463-5:2009, "Non-electrical equipment for use in potentially explosive atmospheres. Protection by constructional safety 'c'

9.0 SINGLE GIRDER CRANES

- 9.1 Harrington's Series 3 Single Girder Cranes are produced to comply with the following standards:
 - 9.1.1 OSHA Section 1910.179 of Title 29, "Occupational Safety and Health Regulations – Overhead and Gantry Cranes"
 - 9.1.2 NFPA 70, "National Electrical Code"
 - 9.1.3 ASME B30.2, "Safety Standard – Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Hoist)"
 - 9.1.4 ASME B30.11, "Safety Standard – Monorails and Underhung Cranes"
 - 9.1.5 ASME B30.17, "Safety Standard – Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)"
 - 9.1.6 CMAA 74, Specifications for Top Running & Under Running Single Girder Electric Overhead Traveling Cranes Utilizing Under Running Trolley Hoist"

10.0 DOUBLE GIRDER CRANES

- 10.1 Harrington's Series 3 Double Girder and RHN Double Girder Cranes are produced to comply with the following standards:
 - 10.1.1 OSHA Section 1910.179 of Title 29, "Occupational Safety and Health Regulations – Overhead and Gantry Cranes"
 - 10.1.2 NFPA 70, "National Electrical Code"
 - 10.1.3 ASME B30.2, "Safety Standard – Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Hoist)"
 - 10.1.4 ASME B30.11, "Safety Standard – Monorails and Underhung Cranes"

10.1.5 CMAA 70, "Specifications for Top Running Bridge & Gantry Type Multiple Girder Electric Overhead Traveling Cranes"

11.0 BEAM CLAMPS

11.1 Harrington's Universal Beam Clamp, UBC is produced to comply with the following standards:

11.1.1 ASME BTH-1, "Design of Below-the-Hook Lifting Devices"

11.1.2 ASME B30.20, "Below-the-Hook Lifting Devices"

11.1.3 Portions of ASME B30.16, "Safety Standard – Overhead Hoists (Underhung)" for use as suspension point for manual and powered hoists.

12.0 SLING CHAIN

12.1 Harrington's sling chain, HSC, is produced to comply with the following standards:

12.1.1 ASME B30.9, "Slings"

12.1.2 NACM Welded Steel Chain Specifications

12.1.3 ASTM A 906/A 906M, Standard Specification for Grade 80 and Grade 100 Alloy Steel Chain Slings for Overhead Lifting

12.1.4 ASTM A 973/A 973M-01, Standard Specification for Grade 100 Alloy Steel Chain

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