

Material Handling Device Engineering Note

(See [ES&H Manual Chapter 6141 Appendix T6](#)
[Below-the-Hook Lifting Devices](#))

1. Material Handling Device

Device Drawing Number:	RM-LST-1.0	+
Device Name or Description:	RICH Module Lifting & Stiffening Tool	
Device Custodian:	George Jacobs	
JLab Storage Location	EEL 124	Property Tag No.
ASME B30.20 Group: (Check One)	<input checked="" type="checkbox"/> Group I – Structural and Mechanical Lifting Device	<input type="checkbox"/> Other Design Standard
	<input type="checkbox"/> Group II – Vacuum Lifting Device	
	<input type="checkbox"/> Group III – Magnets, Close Proximity Operated	
	<input type="checkbox"/> Group IV – Magnets, Remote Operated	

2. Production

Device was: (Check All the Apply)

Purchased from a Commercial Lifting Device
 Manufacturer (Name) _____

Designed and Built at JLab _____

Provided by User or Other Laboratory _____

Other –Describe: Designed by INFN/ Manufactured by GandR Metals, Hampton VA.

3. Lifting Device Data

Capacity	1100 Kg	Fixture Weight	290Kg	Inspection Frequency	annually
Service Rating: (Refer to B30.20 for Definitions)		<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> Heavy	<input type="checkbox"/> Severe	

4. Rated Load Test (See Load Test Certification Sheet for more information)

Jefferson Lab Tested: Date 10/19/17 Test Load: 3000 LBS

Vendor Tested: Attach Certificate



Distribution:

Original: Material Handling Managers File
Copy to: Device Custodian

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Form Revision Summary

Revision 0.3 – 02/09/17 – Periodic Review; formerly titled Below-The-Hook Lifting Device Engineering Note

Revision 0.2 – 06/01/12 – Added a section for test certification notes

Revision 0.1 – 03/22/12 – Update to weblinks

Revision 0.0 – 10/21/11 – This is new content

ISSUING AUTHORITY	TECHNICAL POINT-OF-CONTACT	APPROVAL DATE	REVIEW DATE	REV.
ESH&Q Division	Bob Sperlazza	02/09/17	02/09/20	0.3

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Load Test For RICH Detector Lifting Device

INSPECTOR: Mark Loewus INSPECTION DATE : 10/19/17

- NOTE:**
1. Proof test to 125% of rated capacity. The test load shall be accurate to within -5%, + 0% of stipulated values.
 2. Qualified Inspector shall witness all steps below.

Examination

Lifting bars and spreaders shall be checked for signs of incipient failure in bending and shall be replaced if permanently bent more than 1/2 in. in 10ft. or twisted more than 5 degrees out of the original plane. Hook attachment welds shall be examined for cracks and signs of failure in tension.

Qualified Examiner shall perform test by visual examination, liquid examination, or mag. particle examination.

Acceptance: No cracks, linear indication, laps, or seams.

STATIC TEST: Hold weight for 10 minutes and visually inspect for deformation.

Type

Rated Capacity (SWL) 1100 KG - OR 2425 LBS

Rated Capacity (SWL)

Serial Number _

Serial Number _

Qualified Inspector Verify (Load Test) Mark D. Loewus 10-19-17

Remarks There was no sign of deflection and all welds were inspected.
TEST 1 LOAD APPLIED = 3000 LBS HORIZONTAL
TEST 2 LOAD APPLIED = 3000 LBS ~65° ANGLE
