

	AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED Lifting Inspection	Doc No: QC-LIF-P-023
		Level: 3
		Page 1 of 4
Title: Inspection Procedure of Rigging Screws and Turnbuckles		Rev: 2
Established By: Ashraf Elsaid	Position: Lifting Supervisor	Date: JULY-2022
Approved By: Ahmed Mohamed	Position: Operation Manager	

Inspection Procedure of Rigging Screws and Turnbuckles

	AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED Lifting Inspection	Doc No: QC-LIF-P-023
		Level: 3
		Page 2 of 4
Title: Inspection Procedure of Rigging Screws and Turnbuckles		Rev: 2
Established By: Ashraf Elsaid	Position: Lifting Supervisor	Date: JULY-2022
Approved By: Ahmed Mohamed	Position: Operation Manager	

Contents

Page

1	YOUR SAFETY IS FIRST	3
2	SCOPE	3
3	REFERENCE STANDARDS	3
4	DEFINITIONS	3
5	THOROUGH EXAMINATION.....	4
6	PROOF LOAD TEST	4
7	MARKING	4
8	REPORTING AND CERTIFICATION	4
9	Inspector Competency and Qualification.....	4

	AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED Lifting Inspection	Doc No: QC-LIF-P-023
		Level: 3
		Page 3 of 4
Title: Inspection Procedure of Rigging Screws and Turnbuckles		Rev: 2
Established By: Ashraf Elsaid	Position: Lifting Supervisor	Date: JULY-2022
Approved By: Ahmed Mohamed	Position: Operation Manager	

1. YOUR SAFETY IS FIRST:

Your safety wear is mandatory at job sites including in general: suit, shoes, helmet, gloves, ear plugs, glasses, and mask.

2. SCOPE:

This Procedure covers the inspection and testing of rigging screws and turnbuckles.

3. PRODUCT/ MANUFACTURE STANDARDS:

BS 4429: 1987	<i>Rigging screws and turnbuckles for general engineering, lifting purposes and pipe hanger applications</i>
AS 2319-2001	Rigging screws and turnbuckles

4. DEFINITIONS:

• Rigging Screw:

A lifting accessory comprising of a tubular-shaped body, the internal surface of the body at both ends is threaded in two different directions (right-hand at one end, and left-hand at the other end), the body is attached in both ends with threaded attachments (fittings) of required form, i. e. screwed eyes or screwed forks. Size of screw threads ranges from 8 mm to 100 mm



• Turnbuckle:

A lifting accessory comprising of an open-body, , the internal surface of the body at both ends is threaded in two different directions (right-hand at one end, and left-hand at the other end), the body is attached in both ends with threaded attachments (fittings) of required form, e.g. screwed eyes, screwed forks, screwed hooks, or for use, without attachments, for pipe hanger applications. Size of screw threads ranges from 8 mm to 72 mm.



	AI TAKAMUL COMPANY FOR ENGINEERING TESTS AND PROFESSIONAL SAFETY LIMITED Lifting Inspection	Doc No: QC-LIF-P-023
		Level: 3
		Page 4 of 4
Title: Inspection Procedure of Rigging Screws and Turnbuckles		Rev: 2
Established By: Ashraf Elsaid	Position: Lifting Supervisor	Date: JULY-2022
Approved By: Ahmed Mohamed	Position: Operation Manager	

5. THOROUGH EXAMINATION:

Rigging screws and turnbuckles (lifting accessories) shall be thoroughly examined at intervals not exceeding **six months**. The following shall be checked during thorough examination:

- Marking: as per 6. MARKING
- Items (body and fittings) shall be free of any signs of heat damage, corrosion, pitting, bending, twisting, distortion, stretching, elongation, cracks, nicks, or gouges.
- Screw threads: security (tightness) of threads shall be checked, threads shall show no signs of cracks, wear, corrosion, rust, or damage
- Any unauthorized repair, modification (e.g. welding) is a cause for rejection.

6. PROOF LOAD TEST:

Rigging screws and turnbuckles are proof load tested before being put to use for the first time, after any major repair / alternation, after heavy use, after exceptional circumstances, or as per client requirements.

Rigging screws and turnbuckles are loaded with a load equal to $(2 \times WLL)$ in the fully extended position of the item for a period of time of five minutes, the tested item shall then be thoroughly examined as per 5. Thorough examination, the item shall withstand this load without any signs of permanent deformation / visible defects.

7. MARKING:

Rigging screw and turnbuckles shall be clearly and legible marked with symbols and marks that permits identification with the manufacturer's certificate, marking shall include the following:

- WLL
- Name of manufacturer
- ID mark
- Traceability code

If the item is not already marked, it shall be clearly marked with an identification number and if the test is satisfactory, the WLL and date of the test.

8. REPORTING AND CERTIFICATION:

A certificate of test and thorough examination will be issued upon the satisfactory completion of the examination, i.e. the lifting equipment is safe to operate

A defect report will be issued if the lifting equipment fails to meet the requirements.

9. Inspector Competency and Qualification:

Inspector shall have minimum qualification of LEEA Foundation – LEEA Lifting Equipment General