SPECIFIC SAFETY INSTRUCTION SSI-M-1-3

NON-FIXED LOAD-LIFTING ACCESSORIES
1 INTRODUCTION

For the convenience of the reader, this Specific Safety Instruction uses the masculine gender only. However, its use shall be understood as referring to both genders unless the context clearly indicates a reference to one gender only.

1.1 Legal basis

In accordance with its intergovernmental status, the Organization establishes and updates Safety Rules to implement its Safety Policy.

This Specific Safety Instruction forms part of the CERN Safety Rules and is issued pursuant to the Staff Rules and Regulations and the CERN Safety Policy.

1.2 Purpose and scope

The purpose of this Specific Safety Instruction is to define the additional Safety requirements relating to the following non-fixed load-lifting accessories, compared to General Safety Instruction GSI-M-1 “Lifting equipment and accessories”:

- electro-permanent lifting magnets;
- permanent lifting magnets;
- C-hooks;
- lifting electromagnets (battery or mains fed);
- lifting forks;
- lifting beams;
- clamps;
- sheet-metal clamps;
- vacuum gripping systems.

1.3 Definitions

For the purposes of this Specific Safety Instruction, the following definitions shall apply:

- **Applicable Laws:** all laws, treaties, rules, regulations and orders of any local, national or other authority having jurisdiction over a contractor or a collaborating institution.

- **Examination of the condition of lifting accessories:** examination whose purpose is to check that the lifting accessories are in good condition and identify any wear and tear that could represent a hazard.

- **Inspection of lifting accessories for suitability for use:**
  - that the accessory is suitable for the item of lifting equipment for which the user intends to use it and for the work to be performed, and that it is suitable with respect to the hazards to which workers are exposed;
  - that the intended operations are compatible with the conditions for use of the accessory as defined by the manufacturer.

- **Member of the Personnel:** CERN Members of the Personnel as defined by the CERN Staff Rules and Regulations. Members of the Personnel comprise both employed and associated Members of the Personnel.

- **Static test of lifting accessories:** test in which the lifting accessories are used to bear a load corresponding to the maximum operating load, multiplied by the static test coefficient, without moving the load, for a fixed period of time.

- **User entity:** organic unit or contractor authorised to use an item of mechanical equipment belonging to or hired by CERN or a collaborating institution.

For other definitions please refer to section 1.3 of Safety Regulation SR-M “Mechanical equipment” and to General Safety Instruction GSI-M-1 “Lifting equipment and accessories”.

1.4 CERN Safety Rules and Laws

This Specific Safety Instruction is supplemented by the documents listed below, where they exist:

- Safety Regulations (SR);
- General Safety Instructions (GSI);
- Specific Safety Instructions (SSI);

and by the relevant provisions of the following Laws:

- Arrêté du 1er mars 2004 relatif aux vérifications des appareils et accessoires de levage (France).
• Arrêté du 2 décembre 1998 relatif à la formation à la conduite des équipements de travail mobiles automoteurs et des équipements de levage de charges ou de personnes (France).
• EN 13155 – Cranes – Safety – Non-fixed load lifting attachments (Europe).

In the event of any ambiguity or contradiction between the above-mentioned documents, they shall apply in decreasing order of priority, starting from the top.

2 ADDITIONAL SAFETY REQUIREMENTS COMPARED TO GSI-M-1

The following additional Safety requirements compared to General Safety Instruction GSI-M-1 shall apply to non-fixed load-lifting accessories:

<table>
<thead>
<tr>
<th>Relevant section of GSI-M-1</th>
<th>Phase of life cycle</th>
<th>Additional Safety requirements compared to GSI-M-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1</td>
<td>Design</td>
<td>Illustrative examples: Lifting accessory placed between the gripping system of the lifting equipment and the load to be lifted, making it possible to multiply the number of attachment points in order to adapt to the geometrical characteristics and the resistance of the load being handled.</td>
</tr>
</tbody>
</table>

2.2 Manufacture
No additional Safety requirement compared to GSI-M-1.

2.3 Procurement or arrival/presence on the CERN site
No additional Safety requirement compared to GSI-M-1.

2.4 Installation
Section 2.4 of GSI-M-1 is not applicable.

2.5 Acceptance and commissioning
In the case of non-fixed load-handling accessories designed at CERN the following Safety requirements are required:
- Safety requirements laid down in section 2.5 of GSI-M-1;
- Inspection for suitability for use;
- Static test (1.5 test coefficient and 15 minutes).
In the case of non-fixed load-handling accessories purchased externally the following Safety requirements are required:
- Safety requirements laid down in section 2.5 of GSI-M-1;
- Inspection for suitability for use.

2.6 Use
The user entity shall ensure that persons under its responsibility using non-fixed load-lifting accessories:
- Have received training in accordance with chapter 3, including recycling if applicable;
- Have been declared medically fit;
- Have been provided with the relevant training for their workplace or workstation.

2.7 Periodic inspections
Examination of the condition of the accessory and operating test: annually or at intervals specified by the manufacturer if required more than once per year.

2.8 Maintenance
No additional Safety requirement compared to GSI-M-1.

2.9 Recommissioning
No additional Safety requirement compared to GSI-M-1.

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1 In the case of associated Members of the Personnel, the employer shall certify that its personnel have the required qualifications and training.
3 TRAINING

For Members of the Personnel CERN recognises the “Overhead crane – Operator and Slinger” training course provided by:

- an organisation approved by the French authorities, or
- a training body recognised by SUVA (Swiss Accident Insurance Fund), or
- CERN.

Contractors’ personnel shall have successfully completed training in accordance with the Applicable Laws.

4 FINAL PROVISIONS

4.1 Entry into force

This Specific Safety Instruction (version 1) enters into force upon its publication on the CERN website dedicated to the CERN Safety Rules: https://www.cern.ch/safety-rules.