



# International Standard

**ISO/ASTM 52938-1**

## Additive manufacturing of metals — Environment, health and safety —

Part 1:

### Safety requirements for PBF-LB machines

*Fabrication additive de métaux — Environnement, hygiène et  
sécurité —*

*Partie 1: Exigences de sécurité pour les machines PBF-LB*

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# Contents

Page

<b>Foreword</b>	<b>iv</b>
<b>Introduction</b>	<b>v</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>1</b>
<b>3 Terms and definitions</b>	<b>3</b>
<b>4 Safety requirements and measures</b>	<b>3</b>
4.1 General	3
4.2 Protective measures	3
4.2.1 General	3
4.2.2 Safeguards	3
4.2.3 Control devices	4
4.2.4 Control systems	4
4.3 Protection against mechanical hazards	7
4.3.1 Stability	7
4.3.2 Moving parts	7
4.3.3 Protection against slipping, tripping or falling	8
4.4 Protection against electrical hazards	8
4.4.1 General	8
4.4.2 Protection from electrostatic phenomena	8
4.5 Protection against thermal hazards	8
4.6 Vibration reduction measures	9
4.7 Noise reduction measures	9
4.8 Protection against laser radiation hazards	10
4.9 Protection against pneumatic hazards	10
4.10 Protection against hydraulic hazards	10
4.11 Protection against hazards generated by materials and substances	10
4.11.1 Metal powder handling and recovery	10
4.11.2 Particles during part removal from powder bed and post-processing	11
4.11.3 Explosion and fire hazards	11
4.11.4 Hazards generated by inert gases	13
4.12 Protection against ergonomic hazards	13
4.13 Hazards generated by overpressure	13
4.14 Hazards generated by failure of power supply	13
<b>5 Verification of safety requirements and/or measures</b>	<b>14</b>
5.1 General	14
5.2 Verification based on noise emission values	15
<b>6 Information for use</b>	<b>16</b>
6.1 General	16
6.2 Cleaning and maintenance	16
6.3 Handling	17
<b>7 Marking</b>	<b>17</b>
<b>Annex A (informative) List of significant hazards</b>	<b>19</b>
<b>Annex B (normative) Overview of required performance level (PLR)</b>	<b>23</b>
<b>Annex C (normative) Noise test code</b>	<b>24</b>
<b>Bibliography</b>	<b>29</b>

## Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 261, *Additive manufacturing*, in cooperation with ASTM Committee F42, *Additive Manufacturing Technologies*, on the basis of a partnership agreement between ISO and ASTM International with the aim to create a common set of ISO/ASTM standards on additive manufacturing, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 438, *Additive manufacturing*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

The ISO/ASTM 52938 series provides technical safety requirements for the design and manufacturing of additive manufacturing (AM) machinery for use in the industry. It concerns designers, manufacturers, suppliers and importers of the machines specified in the Scope. It also includes a list of informative items that the manufacturer will need to give to the user.

Environment, health and safety requirements for use of AM machines using metallic feedstocks are addressed in ISO/ASTM 52931:2023.

This document is a type-C standard as stated in ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

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