
Aditivna proizvodnja - Kvalifikacija - Vgradnja, delovanje in zmogljivost (IQ/OQ/PQ) opreme za posteljne metode z uporabo laserskega žarka (PBF-LB) (ISO/ASTM/TS 52930:2021)

Additive Manufacturing - Qualification principles - Installation, operation and performance (IQ/OQ/PQ) of PBF-LB equipment (ISO/ASTM/TS 52930:2021)

Additive Fertigung - Grundlagen der Qualifizierung - Installation, Funktion und Leistung (IQ/OQ/PQ) von PBF-LB-Anlagen (ISO/ASTM/TS 52930:2021)

Fabrication additive - Principes de qualification - Installation, fonctionnement et performances (IQ/OQ/PQ) de l'équipement de PBF-LB (ISO/ASTM/TS 52930:2021)

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**Additive Manufacturing - Qualification principles -
Installation, operation and performance (IQ/OQ/PQ) of
PBF-LB equipment (ISO/ASTM/TS 52930:2021)**

Fabrication additive - Principes de qualification -
Installation, fonctionnement et performances
(IQ/OQ/PQ) de l'équipement de PBF-LB
(ISO/ASTM/TS 52930:2021)

Additive Fertigung - Grundlagen der Qualifizierung -
Installation, Funktion und Leistung (IQ/OQ/PQ) von
PBF-LB-Anlagen (ISO/ASTM/TS 52930:2021)

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European foreword

This document (CEN ISO/ASTM/TS 52930:2021) has been prepared by Technical Committee ISO/TC 261 "Additive manufacturing" in collaboration with Technical Committee CEN/TC 438 "Additive Manufacturing" the secretariat of which is held by AFNOR.

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*Fabrication additive — Principes de qualification — Installation,
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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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, and 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.

Introduction

Additive manufacturing is a machine-centric process. This document provides recommended practices for machine-related process qualification for serial production of metal parts produced with the powder bed fusion by laser beam process (PBF-LB/M). This document is addressed to organizations that already have a comprehensive quality system in place.

While this document is process specific, it is intended to apply to any industry with strict quality requirements. In such industries, it is not possible to complete machine qualification without ensuring repeatable production of the desired process result, given the current state of AM process knowledge. Operational quality and part performance quality sections are included for this reason.

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