

SLOVENSKI STANDARD SIST-TS CEN ISO/ASTM/TS 52930:2022

01-september-2022

Aditivna proizvodnja - Kvalifikacija - Vgradnja, delovanje in zmogljivost (IQ/OQ/PQ) opreme za lasersko spajanje prahu v postelji (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)

Ta slovenski standard je istoveten z: CEN ISO/ASTM/TS 52930:2021

ICS:

25.030 3D-tiskanje Additive manufacturing

SIST-TS CEN ISO/ASTM/TS 52930:2022 en,fr,de

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TECHNICAL SPECIFICATION SPÉCIFICATION TECHNIQUE TECHNISCHE SPEZIFIKATION

CEN ISO/ASTM/TS 52930

December 2021

ICS 25.030

English Version

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CEN ISO/ASTM/TS 52930:2021 (E)

Contents	Page
_	
European foreword	

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CEN ISO/ASTM/TS 52930:2021 (E)

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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SIST-TS CEN ISO/ASTM/TS 52930:2022

TECHNICAL ISO/ASTM TS SPECIFICATION 52930

First edition 2021-11

Additive manufacturing — Qualification principles — Installation, operation and performance (IQ/OQ/PQ) of PBF-LB equipment

TA Fabrication additive — Principes de qualification — Installation, fonctionnement et performances (IQ/OQ/PQ) de l'équipement de PBF-LB

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Con	tent	S	Page
Foreword			iv
Introduction		v	
1	Scop	e	1
2	Norn	native references	1
3	Terms and definitions		
4	Abbı	eviated terms	2
5		ral concepts General Preliminary considerations	3
6	6.1 6.2	Installation qualification (IQ) 6.2.1 General 6.2.2 Specific considerations for installation qualification	
	6.3	Operational qualification (OQ) 6.3.1 General 6.3.2 Specific considerations for operational qualification Performance qualification (PQ) 6.4.1 General 6.4.2 Specific considerations for performance qualification 6.4.3 Deterioration of products	
7	Reva	lidation	13
Anne	x A (no	ormative) Process capability evaluation (Statistical process control)	15
Biblio	graph	lyrds.iteh.ai/catalog/standards/sist/6f751898-2b5b-4729-a1da-4a144cfe4cc7/sist-ts-	19

Foreword

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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).

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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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