

MACHINERY DIRECTIVE 2006/42/EC COMPLIANCE DOC

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Manufacturer: NaviFloor Robotics, Inc.

Address: 2500 Innovation Drive, Wilmington, DE 19801, USA

1. DECLARATION OF CONFORMITY

We, NaviFloor Robotics, Inc., hereby declare under our sole responsibility that the following machinery:

Product Series: NaviFloor Autonomous Mobile Robot (AMR) Platform

Model Numbers: NF-2000, NF-2100, NF-2200

Serial Number Range: NF2023-0001 to NF2024-1000

Manufacturing Year: 2023-2024

complies with all relevant provisions of the Machinery Directive 2006/42/EC and the following harmonized standards:

2. APPLICABLE STANDARDS

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- 1. EN ISO 12100:2010 - Safety of machinery - General principles for design

- - 2 -

2. EN ISO 13849-1:2015 - Safety of machinery - Safety-related parts of control systems

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3. EN 60204-1:2018 - Safety of machinery - Electrical equipment of machines

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4. EN ISO 10218-1:2011 - Robots and robotic devices - Safety requirements

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5. EN 1525:1997 - Safety of industrial trucks - Driverless trucks and their systems

3. TECHNICAL SPECIFICATIONS

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1. The NaviFloor AMR Platform incorporates the following safety features:

- a) Multi-layer safety scanning system utilizing LiDAR technology
- b) Emergency stop functions compliant with Performance Level 'd'
- c) Velocity monitoring and automatic speed reduction
- d) Protective field monitoring with dynamic adaptation
- e) Fail-safe brake system
- f) Redundant safety controllers

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2. Safety Control Architecture:

The safety control system is designed to Performance Level 'd' according to ISO 13849-1:2015, with:

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Category 3 architecture

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Mean Time to Dangerous Failure (MTTFd) > 30 years

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Diagnostic Coverage (DC) > 90%

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Common Cause Failure (CCF) measures implemented

4. RISK ASSESSMENT

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1. A comprehensive risk assessment has been performed according to EN ISO 14126

a) Mechanical hazards

b) Electrical hazards

c) Thermal hazards

d) Noise-related hazards

e) Radiation hazards

f) Material/substance hazards

g) Ergonomic hazards

h) Hazards associated with the environment of use

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2. Risk reduction measures have been implemented following the three-step

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Inherently safe design

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Technical protective measures

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Information for use

5. TECHNICAL DOCUMENTATION

- - 6 -

1. The technical construction file is maintained at:

NaviFloor Robotics, Inc.

2500 Innovation Drive

Wilmington, DE 19801, USA

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2. The technical file includes:

a) Detailed drawings and schematics

b) Circuit diagrams

c) Risk assessment documentation

d) Test reports and certificates

e) User manual and installation instructions

f) Quality control procedures

g) Validation test results

6. AUTHORIZED REPRESENTATIVE

The person authorized to compile the technical file within the European Union is:

EuroComp Robotics Services GmbH

Industriestraße 45

60318 Frankfurt am Main

Germany

7. CONFORMITY ASSESSMENT

The conformity assessment procedure followed:

- - 8 -

Internal production control (Annex VIII of 2006/42/EC)

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EC type-examination by Notified Body TÜV SÜD Product Service GmbH (I

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Certificate Number: M.2023.12.C0123.NFAMR2000

8. DECLARATION

We declare that the machinery described above fulfills all relevant provisions
of Machinery Directive 2006/42/EC. This declaration becomes invalid if technical
or operational modifications are introduced without the manufacturer's consent.

9. SIGNATORIES

Signed for and on behalf of NaviFloor Robotics, Inc.

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Dr. Sarah Chen

Chief Executive Officer

Date: January 11, 2024

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Marcus Depth

Chief Technology Officer

Date: January 11, 2024

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Dr. Elena Kovacs

Chief Research Officer

Date: January 11, 2024

10. DOCUMENT CONTROL

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1. This document is controlled and maintained according to NaviFloor Robot

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2. Distribution of this declaration is controlled and recorded.

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3. This declaration must be supplied with each machine or on request by reg

[END OF DECLARATION]

