ISO 5363:2024-04 (E)

Robotics - Test methods for exoskeleton-type walking RACA robot

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Test conditions **2**

4.1 General 2

4.2 Environmental conditions 2

4.3 Apparatus 2

4.3.1 Construction of test equipment 2

4.3.2 Treadmill 3

4.3.3 Test dummy 4

4.3.4 Test frame 4

4.3.5 Actuation module 5

4.4 Example of test setup 5

5 Accuracy test of range of movement of each joint of walking RACA robot **6**

5.1 Purpose 6

5.2 Procedure 6

6 Repeated durability test of actuated applied part **6**

6.1 Purpose 6

6.2 Procedure 7

7 Repeated durability test of support system of walking RACA robot **7**

7.1 Purpose 7

7.2 Procedure 7

8 Test report **8**

Annex A (informative) **Theoretical background of the repeated durability test of support systems of walking RACA robot** **10**

Annex B (Informative) **Horizontal test set up for the repeated durability test of support systems of walking RACA robot** **12**

Bibliography **14**