

ISO 20957-1:2024-11 (E)

Stationary training equipment - Part 1: General safety requirements and test methods

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Classification	3
4.1	General	3
4.2	Accuracy classes	3
4.3	Usage classes	3
5	Safety requirements	4
5.1	General	4
5.2	Stability	4
5.3	External construction	4
5.3.1	General	4
5.3.2	Edges and corners	4
5.3.3	Tube ends	4
5.3.4	Squeeze and shear points	5
5.3.5	Weights and other resistance means	5
5.4	Entrapment of the user	5
5.5	Adjustment components and locking mechanisms	5
5.6	Ropes, belts, chains and attachment components	6
5.6.1	General	6
5.6.2	Ropes and belts	6
5.6.3	Rope and belt guides	6
5.7	Pull-in points	6
5.7.1	General	6
5.7.2	Pulleys	6
5.7.3	Chains, gears and sprockets	6
5.8	Hand grips	7
5.8.1	Integral handgrips	7
5.8.2	Applied handgrips	7
5.8.3	Rotating handgrips	7
5.9	Endurance	7
5.10	Isometric test function	7
5.11	Heart rate measurement system	7
5.11.1	Indication	7
5.11.2	Heart rate control mode	7
5.12	Electrical safety	8
5.13	Loading	8
5.14	Care and maintenance	8
5.15	Assembly instructions	9
5.16	General instructions for use	9
5.17	Marking	10
5.17.1	Permanent marking	10
5.17.2	Additional marking	10

6	Test methods	10
6.1	Test conditions	10
6.2	Stability test	11
6.2.1	Test in training position	11
6.2.2	Test in folded or storage position	11
6.3	External construction	11
6.3.1	Test of edges and corners	11
6.3.2	Tube ends	11
6.3.3	Testing of squeeze points and shear points	11
6.3.4	Weights and other resistant means	11
6.3.5	Testing of pull-in points	11
6.4	Testing of entrapment	12
6.5	Adjustment components and locking mechanisms	12
6.6	Tests for ropes, belts, chains and attachment components	12
6.7	Testing of rope and belt guides	12
6.8	Testing of integral handgrips	12
6.9	Testing of applied handgrips	13
6.10	Testing of rotating handgrips	13
6.11	Testing of endurance load	13
6.12	Testing of isometric equipment	13
6.13	Testing of indicator of the heart rate measurement system	13
6.14	Testing of the heart rate control mode	13
6.15	Load testing	13
6.16	Testing of care and maintenance, assembly instructions, general instructions for use and marking	14
6.17	Test report	14
	Annex A (informative) Examples for carrying out load testing	15
	Bibliography	18