

Prüfbericht-Nr.: <i>Test Report No.:</i>	50253916 001	Auftrags-Nr.: <i>Order No.:</i>	238102994	Seite 1 von 41 <i>Page 1 of 41</i>	
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	238006605	Auftragsdatum: <i>Order date:</i>	13.Mar.2019		
Auftraggeber: <i>Client:</i>	Dyaco International Inc. 12th Floor, No. 111, Songjiang Rd., Taipei 104, Taiwan, R.O.C.				
Prüfgegenstand: <i>Test item:</i>	Treadmill				
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	ST8700 (DYACO), 4.0 T (PHILIPS)				
Auftrags-Inhalt: <i>Order content:</i>	Safety test and issue of CoC of MSD and test report				
Prüfgrundlage: <i>Test specification:</i>	EN ISO 20957-1:2013, EN 957-6:2010+A1:2014				
Wareneingangsdatum: <i>Date of receipt:</i>	11.Nov.2019				
Prüfmuster-Nr.: <i>Test sample No.:</i>	A001014813 001				
Prüfzeitraum: <i>Testing period:</i>	15.Nov.2019 – 20.Jan.2020				
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland Taiwan Ltd., Taichung Laboratory				
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Taiwan Ltd.				
Prüfergebnis*: <i>Test result*:</i>	Pass				
geprüft von / tested by:	<i>[Signature]</i>				kontrolliert von / reviewed by:
22.Jan.2020	Mac F. Y. Kung / PE		22.Jan.2020	Bryan Y. M. Lee / Reviewer	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other: -This report including 41 pages of report and 8 pages of photo documentation.					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet					
Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					
v04					

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Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	Max. loading capacity: 180kg Class: SA
2	Maße / Gewicht <i>Dimensions / Weight</i>	Dimension: (L x W x H in mm) / weight: (kg) 2138 x 907 x 1565 / 197
3	Bedienelemente <i>Operating elements</i>	Console
4	Ausstattung / Zubehör <i>Equipment / Accessories</i>	N/A
5	Verwendete Materialien <i>Used materials</i>	Mainly metal and plastic
6	Sonstiges <i>Other</i>	

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EN ISO 20957-1: 2013		Stationary training equipment <i>General safety requirements and test methods</i>	
1	Scope		
2	Normative references		
3	Terms and definitions		
4	Classification		
4.1	General		
	Equipment shall be classified in accordance with accuracy and usage classes as described in 4.2 to 4.3. If the intended use of the equipment is for more than one usage class it shall fulfil the requirements of each class.	Class SA Max. user weight is 180kg.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.2	Accuracy classes		
4.2.1	Accuracy classes only apply to equipment which display training data.	Class A.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.2.2	Class A: high accuracy.		
4.2.3	Class B: medium accuracy.		
4.2.4	Class C: low accuracy. NOTE The requirements of accuracy classes are shown in the additional specific parts of this International Standard.		
4.3	Usage classes		
4.3.1	Class S (Studio): professional and/or commercial use. NOTE Such stationary training equipment is intended for use in training areas of organizations such as sport associations, educational establishments, hotels, clubs and studios, where access and control is specifically regulated by the owner (person who has the legal responsibility).	Class S.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
4.3.2	Class H (Home): domestic use. NOTE Such stationary training equipment is intended for use in private homes where access to the equipment is regulated by the owner (person who has the legal responsibility).	Not applicable.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>

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4.3.3	<p>Class I: professional and/or commercial use provided for inclusive use for people with special needs (e.g. visual, hearing, physical or learning disabilities).</p> <p>Such equipment shall also be in compliance with class S requirements (see 4.3.1).</p> <p>NOTE Such stationary training equipment is intended for use in training areas of organizations such as sport associations, educational establishments, hotels, clubs, rehabilitation centres and studios, where access and control is specifically regulated by the owner (person who has the legal responsibility).</p>	Not applicable.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
5	Safety requirements		
5.1	General		
	If any of the following safety requirements are applicable, the equipment shall meet the requirements using the test methods described in Clause 6 .	Informative.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
5.2	Stability of equipment		
6.2 6.2.1	<p>The stationary training equipment shall be stable in any direction, in training, folding and storage positions. The test shall be in accordance with 6.2.</p> <p>Stability test</p> <p>Test in training position</p> <p>Place the equipment on a $(10^{+2}_{-0})^\circ$ incline surface, in the most onerous position.</p> <p>Perform exercise(s) that involve(s) the user's mass, with the equipment loaded with a person weighing (100 ± 5)kg, using the minimum as well as the maximum load, over the full range of exercise motion.</p> <p>In addition, if applicable, perform exercise(s) that does not involve the user's mass, using the minimum as well as the maximum load, over the full range of exercise motion.</p> <p>The equipment shall not tip over in either test.</p> <p>The test person shall not lean or try to influence the balance of the machine.</p>	<p>Max. user weight is 180kg.</p> <p>When tested in accordance with 6.2, the training equipment does not fall over.</p>	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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6.2.2	<p>Test in folded/storage position</p> <p>Place equipment, folded according to the user's manual, on a $(10^{+2}_{-0})^\circ$ incline surface.</p> <p>The equipment shall not tip over in either test.</p>		
5.3	<p>External construction</p>		
5.3.1	<p>Edges and corners</p> <p>All edges and corners of surfaces supporting bodies shall have a radius $r \geq 2,5$ mm.</p> <p>All other edges of components which are accessible to the user or to third parties shall be free of burrs, rounded or protected.</p> <p>Test in accordance with 6.3.1.</p>	No sharp edges found on the products.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.3	<p>External construction</p>		
6.3.1	<p>Test of edges and corners</p> <p>Test by measuring the radius and visual and tactile examination.</p>		
5.3.2	<p>Tube ends</p> <p>When tested in accordance with 6.3.2, accessible tube ends shall be closed off, e.g. by parts of the equipment or by plugs.</p> <p>If plugs are used, they shall remain in position at the end of the endurance load test, as described in the relevant parts of the applicable specific standards. If no endurance test is described in a specific standard the pullout force of the plug shall be ≥ 20 N.</p>	No open tube end exists on the equipments.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.3.2	<p>Tube ends</p> <p>This test is a visual inspection of the unit to verify that all tube ends in the accessible hand and foot area are closed off.</p> <p>The pull-out test shall be performed in a quasi static manner with an appropriate device.</p>		

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<p>5.3.3</p>	<p>Squeeze and shear points within the accessible hand and foot area</p> <p>Squeeze and shear points between moving parts, between moving parts and fixed parts, or between a moving part and the floor shall be guarded or shall have a minimum clearance of at least 60 mm, except as follows:</p> <p>a) if only the fingers are at risk, the dimension shall be at least 25 mm;</p> <p>b) if third party access is prevented by the user's body position, and where the user is able to immediately stop the movement, the distance shall be at least 25 mm;</p> <p>c) if the angle between two adjacent moving parts or between a rigid part and an adjacent moving part is always 50 degrees or greater, it is not considered a shear point;</p> <p>d) open and obvious stops are excluded; however, if the stop is the part which is moving, then it shall pass no closer than 25 mm from any fixed frame member throughout its range of movement.</p> <p>All products shall fulfil the above requirements during use.</p> <p>For foldable products during folding or unfolding, the above requirements are waived if the following three requirements are simultaneously met:</p> <ul style="list-style-type: none"> - inadvertent movement is not possible during folding, unfolding, transportation and/or storage; - access to squeeze and shear points remain at all times in the user's field of vision; - the user can stop the motion at any time. <p>Test in accordance with 6.3.3.</p>	<p>No such point found.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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<p>5.3.4</p> <p>Squeeze and shear points as well as rotating and reciprocating points in the accessible hand and foot area</p> <p>The distance between movable parts or between a movable and a fixed part shall be at least 60 mm except as follows:</p> <p>a) if only fingers are at risk, the dimension shall not be less than 25 mm;</p> <p>b) if the distance between the moving part and fixed part, or between two moving parts, does not change during use or setup, the distance shall be greater than 25 mm or less than 9,5 mm;</p> <p>c) open and obvious stops are excluded. However, if the stop is the part which is moving, then it shall pass no closer than 25 mm to any fixed frame member throughout its range of movement.</p> <p>Test in accordance with 6.3.3.</p> <p>6.3.3</p> <p>Testing of squeeze and shear points and rotating and reciprocating points</p> <p>Measure the minimum distance between two moving parts or a moving part and a fixed part.</p>		<p>No such point found.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
<p>5.3.5</p> <p>Weights and resistant means</p> <p>The range of motion of all weights attached to the stationary training equipment shall be limited to that required to perform the exercise. Test in accordance with 6.3.4.</p> <p>Weights and resistant means with stored energies (e.g. bungee cords, elastic tubes, mechanical springs) shall move freely and return to the starting point.</p> <p>Weights shall be securely retained during use.</p> <p>6.3.4</p> <p>Weights and resistant means</p> <p>A performance test using the maximum and minimum resistance or weights including added resistance or weights (e.g. incremental weights) shall be carried out over the maximum range of movement.</p>		<p>No weights exist. The resistant setting is electronic controlled.</p>	<p>P <input type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input checked="" type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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5.4	Entrapment of the user		
6.4	<p>The possibility of users not being able to exit the equipment when using it according to the user's manual shall be avoided (e.g. providing assisted means of escape).</p> <p>Test in accordance with 6.4.</p> <p>Testing of entrapment A visual and performance test shall be carried out to determine whether or not the user can become entrapped.</p>	<p>Easily to access and escape of treadmill.</p> <p>Also a foot platform exists for emergency situation.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
5.5	Adjustment components and locking mechanisms		
6.5	<p>Adjustment components and locking mechanisms on the stationary training equipment shall function securely, be conspicuous, self-evident and safely accessible to the user. The possibility of unintended change shall be eliminated.</p> <p>Adjustment components and locking mechanisms e.g. knobs and levers shall not interfere with the user's range of movement.</p> <p>Weight selection pins shall be fitted with a retention device to prevent unintended change or movement during the exercise.</p> <p>Test in accordance with 6.5.</p> <p>Adjustment components and locking mechanisms Perform a visual and functional examination before, during and after every test.</p>	<p>The equipment is not foldable.</p> <p>No weight selection pin.</p>	<p>P <input type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input checked="" type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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5.6	Ropes, belts, chains and attachment components		
5.6.1	<p>General</p> <p>Ropes, belts, chains and their attachment components (e.g. snap links, shackles, carabineers, clamps or similar) shall have a safety factor against breakage of 6 times the maximum possible tension that can be developed. The design of the pulleys and the bending radius shall be in accordance with the applicable requirements of the rope, belt or chain manufacturers.</p> <p>Ropes, belts, chains and their attachment components shall not break and function as described in the user's manual.</p> <p>Test in accordance with 6.6.</p>	No such design.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
6.6	<p>Tensile test for ropes, belts, chains and attachment components</p> <p>Measure the tension of the rope, belt or chain as well as the attachment components while statically applying the maximum specified load. Then perform a tensile test, with 6 times the maximum measured tension for the whole functional system.</p>		
5.6.2	<p>Ropes and belts</p> <p>Rope and belt ends shall be, as a minimum, flush with the end of the termination means and shall be visible for inspection.</p> <p>Pressed connections shall not be subjected to bending.</p> <p>Rope and belt ends and grips shall have no sharp edges or frayed ends.</p> <p>Test in accordance with 6.6.</p>	No such design.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
6.6	<p>Tensile test for ropes, belts, chains and attachment components</p> <p>Measure the tension of the rope, belt or chain as well as the attachment components while statically applying the maximum specified load. Then perform a tensile test, with 6 times the maximum measured tension for the whole functional system.</p>		
5.6.3	<p>Rope and belt guides</p> <p>A means shall be provided to prevent a rope or a belt becoming unintentionally disengaged during use or set-up.</p> <p>Test in accordance with 6.7.</p>	No such design.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
6.7	<p>Testing of rope and belt guides</p> <p>Perform a functional test.</p>		

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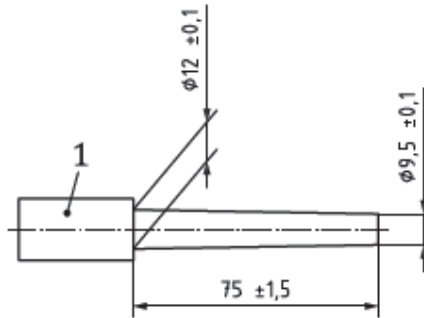
5.7	Pull-in points		
	<p>Pull-in points of rope or belt drives up to 1 800 mm height shall be protected except if the surface pressure is $\leq 90 \text{ N/cm}^2$ or when access to the pull-in point is prevented by the user's body during exercising.</p> <p>This may be achieved by ensuring that the angle between the rope and the guard is not less than 50° in all positions. The guard shall not rotate together with the pulley.</p> <p>Test in accordance with 6.3.5.</p> <p>Pull-in points for chains, gears and sprockets shall be protected in accordance with ISO 12100.</p> <p>For flywheels the test finger (see Figure 1) shall not become trapped when tested in accordance with 6.8.</p>	<p>All transmission elements, electrical or electronic parts covered.</p> <p>Test finger cannot insert between drive and transmission elements dynamically.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
6.3.5	<p>Testing of pull-in points</p> <p>Apparatus: test finger in accordance with Figure 1. Surface hardness $\geq \text{HRC } 40$ (measured in accordance with ISO 6508-1).</p> <p>Approach the pull-in point with the test finger probe to determine whether the test finger can become trapped. For non-protected pull-in points measure the pressure perpendicularly to the moving direction in the most onerous position of the mechanism (e.g. the rim of a pulley or the minimum radius of a cam). The test shall be performed with the maximum load. The pressure shall not exceed 90 N/cm^2 in any part of the mechanism.</p>		
6.8	<p>Testing of flywheels</p> <p>Insert the test finger (see Figure 1) from all sides into any possible entrapment point between the drive and transmission elements, while the equipment is in normal operation.</p> <p>Do not introduce the test finger beyond the edge of the protective covering.</p> <p>Determine whether the test finger becomes trapped.</p>		

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Dimensions in millimetres



Key

- 1 handle
- R_a -value $\leq 0,40 \mu\text{m}$
- Surface hardness $\geq \text{HRC } 40$ (measured in accordance with ISO 6508-1)

Figure 1 — Test finger

5.8	Hand grips		
5.8.1	Integral handgrips Gripping positions shall be easily identifiable and designed to reduce slipping (e.g. textured, coated, knurled). Test in accordance with 6.9.	Integral handgrips exist.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.9	Testing of integral handgrips Perform a functional test.		
5.8.2	Applied handgrips When tested in accordance with 6.10, applied handgrips shall not be removed. Applied handgrips shall be equipped with a surface that reduces hand slip.	No applied handgrip.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
6.10	Determination of the removing force of applied handgrips Apply a force of 70 N carefully to the handgrip by means of an appropriate pulling device.		
5.8.3	Rotating handgrips Rotating handgrips shall be secured during use and shall be designed to reduce slipping (e.g. textured). Test in accordance with 6.11.	No rotation handgrips exist.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
6.11	Testing of rotating handgrips Perform a functional test.		

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5.9	Endurance test		
6.12	<p>The stationary training equipment shall function as specified in the manufacturer's instructions after the test has been carried out. Test in accordance with 6.12.</p> <p>Testing of endurance load</p> <p>Carry out the test as close as possible to normal exercise frequency and free of shocks for:</p> <p>a) class H 12 000 cycles over 80 % of the possible range of movement;</p> <p>b) class S 100 000 cycles over 80 % of the possible range of movement;</p> <p>1) with maximum load;</p> <p>2) in direction of load in accordance with the exercise instructions fixed by a 50 percentile man;</p> <p>3) with a frequency of movement in accordance with the user's manual.</p> <p>If the equipment offers multiple exercise stations the test shall be done with all stations and functions as described in the user's manual.</p>	<p>Class SA.</p> <p>Refer to endurance test of EN 957-6 Clause 6.9.</p> <p>No damage or malfunction after the test.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
5.10	Isometric test requirements		
6.13	<p>If the stationary training equipment is designed to perform an isometric test, then the load or force on the user's body shall be displayed with an accuracy of $\pm 10\%$ in the range of measurement given in the user's manual and the read outs shall be SI units.</p> <p>Test in accordance with 6.13.</p> <p>Testing of isometric equipment</p> <p>Measure the static output force or torque of the body in the position(s) as described in the user's manual and compare this value to the displayed value.</p> <p>Perform the test using the following three values:</p> <ul style="list-style-type: none"> - minimum; - maximum; - a third random value between these two points. 	<p>No such design.</p>	<p>P <input type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input checked="" type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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5.11	Heart rate measurement system		
6.14	<p>The function of the heart rate measurement system shall be indicated on the display when the equipment is receiving a usable signal from the user, e.g. a blinking heart.</p> <p>Test in accordance with 6.14.</p> <p>Testing of the heart rate measurement system Perform a visual test by using the heart rate measurement system.</p>	<p>The console shows the reading of the heartrate.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
5.12	Heart rate control mode		
6.15	<p>The function of the heart rate measurement system shall be permanently indicated on the display when the equipment is receiving a usable signal from the user, e.g. a blinking heart.</p> <p>The loss of heart rate signal shall result in effort intensity remaining at the same intensity for maximum 60 s and then decrease until the minimum intensity is reached. The rate of decrease shall be at least 10 % in each 20 s time period.</p> <p>Test in accordance with 6.15.</p> <p>Testing of the heart rate control mode Set the equipment to the heart rate control mode with a target of 120 bpm. Operate the product according to the manufacturer's specifications, then use a heart rate simulator or a person to activate the control mode. Cut off the signal and then check if the resistance or the load reduces according to the requirements shown in 5.12. If there are more than one heart rate control system, each system shall be tested.</p> <p>Test the heart rate indicator by visual testing.</p>	<p>The blinking heart in display console.</p> <p>When cut off signal, after 35s the speed starts decreased. Measured speed rate is 3 km/h in 20s.</p> <p>Above test result for both modes.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
5.13	Electrical safety		
	<p>Concerning electrical and electronic aspects of stationary training equipment EN 60335-1 shall be applied. For medical devices EN 60601-1 shall be applied.</p>	<p>Please refer to report 002 for EN 60335-1.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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5.14	Loading		
5.14.1	<p>Intrinsic loading</p> <p>Each piece of equipment loaded with the user's bodymass shall withstand a force F of 2,5 times the bodymass.</p> <p>After the test the equipment shall not be broken and shall still function as intended by the manufacturer.</p> <p>Test in accordance with 6.16.</p>	Refer to loading test of EN 957-6 Clause 6.8.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.16	<p>Testing of intrinsic loading</p> <p>Carry out the test quasi-statically. Apply the load F in the most onerous position when used according to the instructions in the user's manual on a surface area of 300 mm × 300 mm for 5 min on the stationary training equipment.</p> <p>Only equipment that requires anchoring for normal use shall be fixed during the test.</p>		

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5.14.2	<p>Extrinsic loading</p> <p>When tested according to 6.3.4 and loaded with the user's bodymass and/or reaction forces or moments of the user as well as other forces or moments caused by any other source (e.g. additional weights supported by a stand), each piece of equipment shall withstand a load F according to Formula (1):</p> $F = [G_k + 1,5 G] \cdot 2,5 \cdot 9,81 \text{m/s}^2 \quad (1)$ <p>Where</p> <p>F is the load in newton; G is the maximum load in kilograms indicated by the manufacturer (see 5.17); G_k is the load in kilograms applied by the bodymass to the support being tested; 1,5 is the dynamic factor; 2,5 is the safety factor.</p> <p>After the test the equipment shall not be broken and shall still function as intended by the manufacturer. Test in accordance with 6.17.</p>	No extrinsic loading.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
6.3.4	<p>Weights and resistant means</p> <p>A performance test using the maximum and minimum resistance or weights including added resistance or weights (e.g. incremental weights) shall be carried out over the maximum range of movement.</p>		
6.17	<p>Testing of extrinsic loading</p> <p>Carry out the test quasi-statically. Apply the load F in the most onerous position when used according to the instructions in the user's manual for 5 min on the stationary training equipment. Place the determined load on the equipment as in normal practice and in a position which imposes greatest strain on the equipment.</p> <p>When the load bearing surface is divided, apply the test load to each part in proportion to the total surface area at the same time.</p> <p>The load should be applied through a load applicator in a way that simulates the situation that occurs when the equipment is used according to the instructions in the user's manual.</p>		

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5.15	Care and maintenance		
	<p>Care and, if applicable, maintenance advice shall be provided with each piece of equipment. The advice shall include at least:</p> <p>a) a warning notice to the effect that the safety level of the equipment can be maintained only if it is examined regularly for damage and wear, e.g. ropes, pulleys, connection points;</p> <p>b) an advice to replace defective components immediately and/or keep the equipment out of use until repair;</p> <p>c) special attention to components most susceptible to wear.</p> <p>Test in accordance with 6.18.</p>	Manual is provided and includes required information.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.18	<p>Testing of care and maintenance, assembly instructions, general instructions for use and marking</p> <p>Verify the information provided by the manufacturer versus the equipment being tested.</p>		
5.16	Assembly instructions		
	<p>If the stationary training equipment requires assembly, then a manual shall be supplied (in the national language), giving clear and accurate assembly instructions relating to the stationary training equipment and with an emphasis on safe assembly.</p> <p>If the stationary training equipment requires assembly, then a list of tools needed shall be provided.</p> <p>If the stationary training equipment requires assembly, then a comprehensive parts list shall be supplied, including identifying part numbers.</p> <p>The manufacturer shall indicate the total mass and the total surface area (e.g. foot print) of equipment.</p> <p>When stationary training equipment is attached/anchored, e.g. to a wall or the floor, assembly instructions including the attaching/anchoring operations shall be provided.</p> <p>The manufacturer shall provide the minimum value (force) each attachment shall support.</p>	Manual is provided and includes required information.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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5.17	General instructions for use		
	<p>Each item of stationary training equipment shall be accompanied by a user's manual, in the national language including at least the following information.</p> <p>a) Customer service address.</p> <p>b) Full address of the manufacturer or importer.</p> <p>c) Indication of field of application (e.g. indoor use, explanation of the usage class).</p> <p>d) Indication that the free area shall be not less than 0,6 m greater than the training area in the directions from which the equipment is accessed. The free area must also include the area for emergency dismount. Where equipment is positioned adjacent to each other the value of the free area may be shared. The free area and training area shall be illustrated with a dedicated figure.</p> <p>e) Information on the correct use of the equipment and its features with the emphasis on safe operation, and the importance of keeping unsupervised children away from the equipment.</p> <p>f) Exercise instructions with advice with regard to correct biomechanical positioning of the user on the stationary training equipment. A warning indicating that injuries to health may result from incorrect or excessive training. Instructions shall be given in respect of every major exercise type for which the equipment is designed.</p> <p>g) Texts concerning difficult or complicated manoeuvres shall be accompanied by illustrations.</p> <p>h) Instruction on how to safely use access and escape assist means.</p> <p>i) Design illustration.</p> <p>j) Warning that if any of the adjustment devices are left projecting, they could interfere with the user's movement.</p> <p>k) Warning that free standing equipment shall be installed on a stable and levelled base.</p> <p>l) Setting of the load and equipment further adjustments (e.g. seat adjustments).</p> <p>m) Indication of the maximum user body mass.</p>	<p>Manual is provided and includes required information.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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	<p>n) Indication of the maximum training mass, if applicable.</p> <p>o) Explanation of the displayed data, if applicable.</p> <p>p) If the heart rate is displayed, a warning with the following content shall be given: "WARNING! Heart rate monitoring systems may be inaccurate. Over exercising may result in serious injury or death. If you feel faint stop exercising immediately".</p>		
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5.18	Marking		
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	<p>Stationary training equipment shall be permanently marked with the following minimum information:</p> <p>a) name or trademark and full address of the manufacturer, supplier or importer;</p> <p>b) maximum body mass of user and the maximum training mass for the individual exercise stations (if applicable);</p> <p>c) usage classes S, H or I and accuracy classes A, B, C, which can be combined (e.g. SA) if both classes are specified in that part of this International Standard;</p> <p>d) individual code number (which contains information about type and year of manufacture);</p> <p>e) graphical symbol or written information in the national language(s) instructing the user to read the information supplied by the manufacturer;</p> <p>f) for class S and I equipment, a conspicuous graphical symbol or written information in the national language(s) shall be applied if the equipment needs attachment/anchoring for safe operation.</p> <p>It is the responsibility of the manufacturer to display compliance with this International Standard by the additional indication of ISO 20957 in connection with the letter symbol of the designation class(es) (class S, H and I).</p>	<p>Marking is provided and includes required information.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
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6	Test methods		
6.1	Test conditions		
	All testing shall be performed under the following conditions:		P <input checked="" type="checkbox"/>
	a) temperature of 23 °C ± 5 °C;	26.5 °C	F <input type="checkbox"/>
	b) relative humidity of 55 % to 75 %.	58.5%	N/A <input type="checkbox"/>
			N/T <input type="checkbox"/>
6.19	Test report		
	The test report shall include at least the following information:	Informative.	P <input checked="" type="checkbox"/>
	a) name and address of the testing facility and location where the test was carried out when different from the address of the reporting facility;		F <input type="checkbox"/>
	b) unique identification of the report (such as serial number), each page, and total number of pages of the report;		N/A <input type="checkbox"/>
	c) name and address of the client;		N/T <input type="checkbox"/>
	d) description and identification of the test item;		
	e) date of receipt of the test item and date(s) of the performance of the test;		
	f) identification of the test specification or description of the method or procedure;		
	g) description of the sampling procedure, where relevant;		
	h) any deviations, additions or exclusions from the test specification, and any other information relevant to a specific test;		
	i) measurements, examinations and derived results, supported by tables, graphs, sketches and photographs as appropriate, and any failures identified;		
	j) statement on the measurement uncertainty (where relevant);		
	k) signature and title or an equivalent marking of person(s) accepting technical responsibility for the test report and date of issue;		
	l) statement to the effect that the test results relate only to the items tested.		

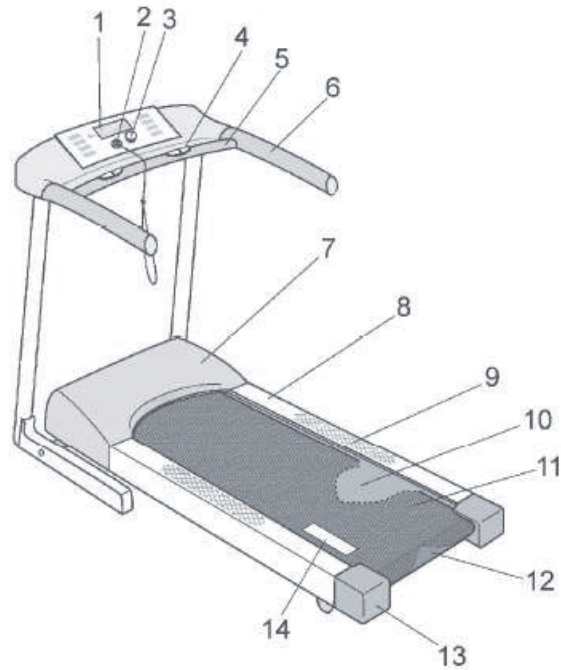
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EN 957-6:2010+A1:2014		Stationary training equipment Treadmills, Additional specific safety requirements and test methods	
1	<p>Scope</p> <p>This European Standard specifies safety requirements and test methods for treadmills in addition to the general safety requirements and test methods of EN 957-1. It is intended that EN 957-6 is applied together with EN 957-1.</p> <p>This part of EN 957 deals with significant hazards, hazardous situations and events relevant to stationary training equipment used as intended and under the conditions of misuse foreseeable by the manufacturer (see Clause 4).</p> <p>EN 957-6 is applicable to power-driven as well as to non-power/manually driven training equipment type treadmills (hereafter referred to as treadmills) with the classes S, H and I and classes A, B and C regarding accuracy.</p> <p>This document is not applicable to treadmills which are manufactured before the date of its publication as a European Standard.</p>		
2	<p>Normative references</p> <ul style="list-style-type: none"> - See EN 957-6:2010+A1:2014 		
3	<p>Terms and definitions</p> <ul style="list-style-type: none"> - See EN 957-6:2010+A1:2014 		
4	<p>List of significant hazards</p> <p>Table 1 shows the significant hazards, hazardous situations and events, as far as they are dealt with in this European Standard, identified by risk assessment as significant for this type of equipment and which require action to eliminate or reduce the risk.</p> <p>NOTE For a particular treadmill, a risk assessment should be carried out by the manufacturer to identify any additional significant hazards so that suitable protective measures can be taken. Additional hazards are outside the scope of this standard.</p> <p>For identification and evaluation of hazards EN ISO 12100 applies.</p>		
5	<p>Classification</p>		

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Key

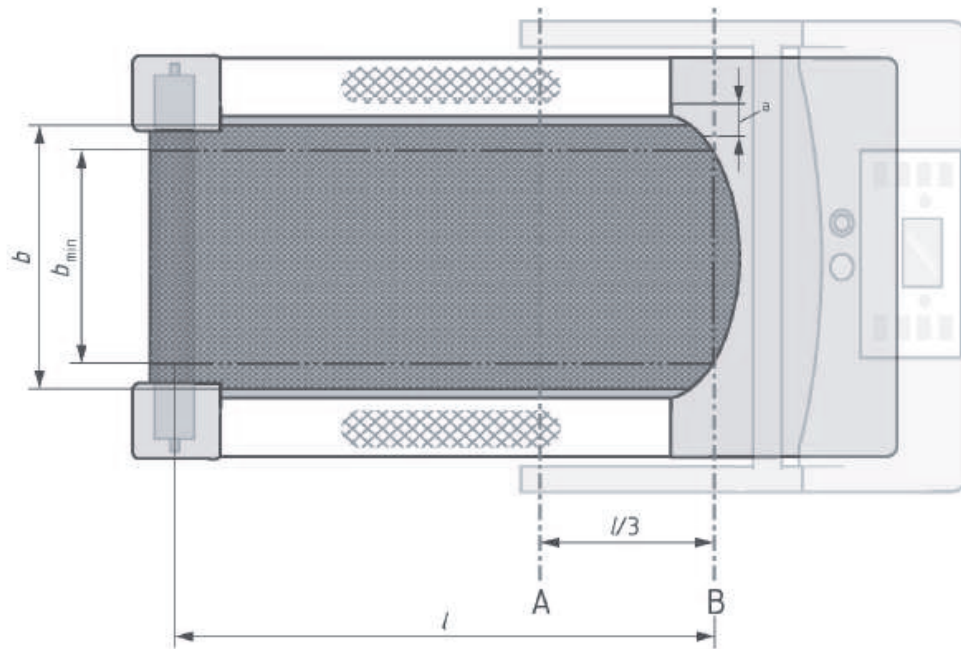
- 1 display
- 2 safety stop (cord type)
- 3 safety stop (mushroom type)
- 4 heart rate hand sensor
- 5 front handlebar
- 6 side handrail
- 7 front protective cover
- 8 foot rail
- 9 non slip surface
- 10 running deck
- 11 running surface
- 12 rear roller
- 13 rear roller protective cover
- 14 marking of the running surface

Figure 1 — Example of a treadmill

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Key

- A line located at 1/3 of the length of the running surface measured from B
- B front end of the running surface
- ^a identifiable feature according to 5.2
- b* width of the running surface
- b_{min}* minimum required width of the running surface according to Table 1
- l* length of the running surface

Figure 2 — Definition of main measures

6	Safety requirements and/or protective measures		
6.1	General		
	<p>The equipment shall comply with the safety requirements and/or protective measures of this clause. In addition, the equipment shall be designed according to the principles of EN ISO 12100 for relevant but not significant hazards, which are not dealt with by this document.</p> <p>Fixed guards shall be fixed by systems that can be opened or removed only with tools. Fixed guards that have to be removed for maintenance, adjustment or inspection shall be retained by fasteners that are retained in the guard or machine when the guard is removed.</p>	<p>Ok.</p> <p>The customers are not allowed to open the fixed guards will be shown clearly in the manual.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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6.2	Squeeze and shear points within the accessible area		
	<p>All parts of treadmills, including any folding mechanism, shall be in accordance with EN 957-1:2005, 5.2.3 in folded position, during folding and in useable position. For folding treadmills the lock for securing the equipment is excluded.</p> <p>Where the inclination can be changed during operation thus causing the distance between any part of the equipment and the floor to become smaller than 60 mm, the speed of inclination shall not exceed 1°/s and the user shall be able to stop this movement.</p>	<p>Inclination is existed from -5% to 15 %.</p> <p>The inclination speed does not exceed 1°/s.</p> <p>The distance between rear roller and the floor is large than 60 mm.</p> <p>The user can stop it by safety tether cord.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

6.3	Transmission elements and rotating parts		
	<p>Drawing-in shall be prevented at all points between the running surface and fixed or moving parts of the treadmills or the floor.</p> <p>Identifiable feature(s) indicating the acceptable lateral position(s) of the running surface shall be provided on the treadmill.</p> <p>[see a in Figure 2 and Clause 10 g)].</p> <p>When tested in accordance with 7.1, it shall not be possible that the test finger becomes trapped between the rear roller guard and the running surface. With the running surface centred, the rear roller guard shall overlap the edges of the running surfaces by min. 10 mm and max. 40 mm (see Figure 3).</p> <p>The vertical gap between the running surface and the rear roller guard or overlapping foot rails shall not be more than 9,5 mm.</p>	<p>The test finger didn't trap during the test.</p> <p>A label on the motor cover indicates the allowed lateral position of the running surface.</p> <p>The rear roller guard is covered, running belt is overlapping.</p> <p>Measured value: 22.5mm</p> <p>The width of running belt: 560 mm</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

Dimensions in millimetres

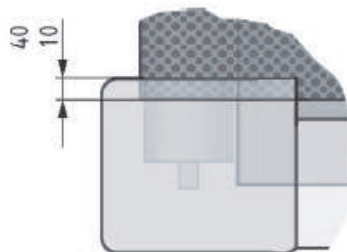


Figure 3 — Example of a rear roller guard (min. 10 mm and max. 40 mm)

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6.4	Temperature rise		
7.2	<p>When tested in accordance with 7.2, accessible parts of the treadmill shall not have a temperature greater than 65 °C.</p> <p>Testing of temperature rise During the testing in 7.8, check the temperature</p> <ul style="list-style-type: none"> - after 30 min for class H and - after 60 min for class S. 	No temperature over 65 °C.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.5	Safety stop (emergency stop)		
6.5.1	General		
	<p>All power driven treadmills shall be equipped with a safety stop switch, which shall include a push-button operated switch and/or a pull-cord operated switch. The push-button type or pull cord safety stop actuator shall be in a reachable position in front of the user and in an area of ± 180 mm parallel to the centreline of the running surface.</p> <p>Test in accordance with 7.3.</p> <p>If the push-button type safety stop actuator is outside this area it shall be duplicated on the opposite side except when a pull-cord actuator is provide</p>	<p>Positive opening safety stop actuator existed with pull cord.</p> <p>Safety stop actuator located in center line.</p>	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.5.2	Characteristics		
7.3	<p>Operating the safety stop shall result in the machine cutting off the main power of the motor and the inclination system without relying on any software functions.</p> <p>The contacts of manually operated safety stop devices shall ensure positive opening. The achievement of contacts separation shall be the direct result of a specified movement of the switch actuator through non resilient members. Emergency stop relays or manually reset fail-safe relays may be used.</p> <p>It shall not be possible to restore the circuit until the actuator of the safety stop device has been manually reset. After restoring the circuit, the equipment shall restart with standstill and the incline shall stay the same or reset according to 6.2. Where several safety stop devices are provided, the circuit shall not be restored until all actuators previously operated have been reset.</p> <p>Testing of the safety stop (emergency stop) Measure the position of the safety stop according to 6.5.1 and perform a visual inspection and a functional test.</p>	<p>When the safety key is activated, the power will be interrupted by relays.</p> <p>It is not possible to restore the machine before the safety key is reset manually.</p>	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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6.5.3	Actuator(s)		
7.4	<p>Actuators of safety stop devices shall be coloured RED. The actuator of a push-button operated switch shall be of the palm or mushroom head type and shall have a yellow background.</p> <p>The background around the actuator shall be at least 5 mm wider than the actuator itself on all sides.</p> <p>Pull-cord safety stop actuators shall release with a maximum force of 50 % of the force required to release the attachment device when attached to the user according to the manufacturers' recommendation.</p> <p>The actuator cord shall have a suitable length so that the actuator releases at a position not more than 70 % of the length of the running surface.</p> <p>Test in accordance with 7.4.</p> <p>Testing of the actuator(s) Visual and dimensional test.</p> <p>Attach the pull-cord safety stop according to the manufacturer's recommendations.</p> <p>Measure the release force while pulling the actuator cord progressively in the direction parallel to the running surface and in the normal direction of motion.</p> <p>If the attachment device clamps to the fabric of the user's shirt, then simulate the shirt with the test fabric according to EN ISO 12947-1:1998, Table 1.</p>	<p>The actuator is red color. The yellow background is 7mm greater then red area.</p> <p>Length measured and is within 70%.</p> <p>Force required to release the clamp = 14N Force required to release the safety key from console = 6N.</p> <p>14N x 50% = 7N > 6N</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
6.6	Immobilization method		
7.5	<p>For power driven treadmills there shall be an immobilization method for the treadmill to prevent uncontrolled usage of third parties. This method shall be explained in the instructions for use.</p> <p>Testing in accordance with 7.5.</p> <p>Testing of immobilization method Visual and functional test.</p>	<p>The power cord can be detached and used as immobilization method.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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6.7	Stability		
	The treadmill shall be stable in both training and storage positions when tested in accordance with 7.6.	The products are stable design.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
7.6	Stability test		
7.6.1	Test in training position Carry out the test with a test person (100 ± 5) kg running at a speed of (9 ± 1) km/h:: – at $+10^{\circ}_{0^{\circ}}$ and $-10^{\circ}_{0^{\circ}}$ in the running direction and – at $5^{\circ}_{0^{\circ}}$ in the other directions through the maximum and minimum ranges of inclinations. Carry out an emergency dismount test using the front handlebars/foot rails on flat surface with a maximum inclination of the treadmill at a speed of (9 ± 1) km/h or where this is not possible at maximum speed.		
7.6.2	Test in folded position Carry out the test at $10^{\circ}_{0^{\circ}}$ in the most unfavourable direction.		
7.6.3	Testing of the foot rail support system Apply the load in the most unfavourable position and measure the distance vertically to the floor where the load is applied before and immediately after the test. Determine the permanent deformation as a percentage of the length of the running surface (see Figure 2).		

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6.8	Static strength of the running surface		
7.7	<p>Classes H, S and I treadmills shall withstand a load four times the maximum user weight specified by the manufacturer or 4 000 N whichever is greater without fracture, cracking or permanent deformation. Verification shall be by testing in accordance with 7.7. The treadmill shall withstand the test in flat, mid and maximum inclination, where inclination is applicable.</p> <p>When tested in accordance with 7.7, the running surface shall show no permanent deformation of more than 3 %.</p> <p>Load testing Apply the test load over an area of (300 ± 5) mm × (300 ± 5) mm in the middle of the running surface, the centre of which is lined up with line A in Figure 2. The running surface may be restrained to prevent movement.</p> <p>The duration of the test shall be (60 ± 5) s.</p> <p>If inclination is applicable, apply the load at the flat, the mid and the highest inclination.</p>	<p>180kg x 4 = 720kg</p> <p>Tested in lowest, middle and highest elevation.</p> <p>Permanent deformation is less than 2%.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
6.9	Endurance		
	<p>When tested in accordance with 7.8, the treadmill shall withstand:</p> <p style="margin-left: 20px;">a) 12 000 impacts for class H and</p> <p style="margin-left: 20px;">b) 100 000 impacts for class S and I.</p> <p>The test shall not cause any fracture, cracking, or permanent deformation to the treadmill. After the test, the treadmill shall be capable of functioning correctly according to the information given in the user's manual.</p>	<p>Class: S</p> <p>Loaded : 135kg (including tyre weight)</p> <p>Testing cycles: 100000 times</p> <p>Testing speed: 12 km/h</p> <p>The treadmill is working properly after the test.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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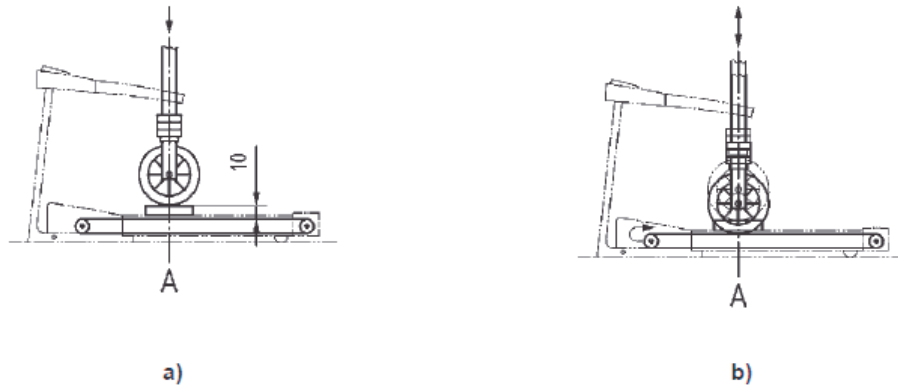
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<p>7.8 7.8.1</p>	<p>Testing of endurance Requirement for the test apparatus</p> <ul style="list-style-type: none"> a) Car tyre 155/13 with a pressure of 1,5 bar ± 0,25 bar, see Figure 5; b) Falling mass (including the tyre) of 0,75* maximum user weight ± 5 % as described in the users manual or 75 kg ± 3,75 kg whichever is greater; c) Free fall height: (10⁺¹)mm; d) Impact frequency: not less than 0,5 Hz; e) The free fall of the falling mass shall be guaranteed by the machine construction. 		
<p>7.8.2</p>	<p>Test method Drop the falling mass in the middle of line A (see Figure 5):</p> <ul style="list-style-type: none"> a) 12 000 times for class H; b) 100 000 times for class S; <p>with a running surface speed of:</p> <ul style="list-style-type: none"> c) (8 ± 1) km/h for class H; d) (12 ± 1) km/h for class S <p>(or maximum speed if less than stated).</p> <p>If a treadmill is equipped with an inclination system it shall be tested in the lowest possible position where such a system is not resting on the stop device.</p> <p>For manually driven treadmills with a resistance system, drive the treadmill externally at (8 ± 1) km/h with 50 % of the maximum resistance ± 10 %.</p> <p>If there is no resistance system then perform the test at 50 % of the maximum inclination.</p> <p>Lubrication and preparation shall be done in accordance with the instructions for use.</p> <p>Should resonance occur during the test procedure, the speed of the treadmill may be adjusted within ± 15 % to eliminate resonance.</p> <p>After completion of the required number of load cycles, check that the treadmill is capable of being used as defined in the instructions for use.</p>		

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Key

A line located at 1/3 of the length of the running surface measured from the front (see Figure 2)

Figure 5 — Example of the test apparatus

6.10	Handrails		
6.10.1	General		
	Treadmills shall be equipped with two side handrails or with two side handrails and a front handlebar for user support and emergency dismount.	2 side handrail and 2 front handlebar (left and right) are provided.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
6.10.2	Treadmills with side handrails only		
	The top of the side handrails shall be at a height between 800 mm and 950 mm above the running surface measured vertically, which may not be perpendicular to the running surface at all incline positions. The distance between the side handrails shall not exceed 900 mm (inside to inside). Each side handrail shall extend beyond line A (see Figure 2). The side handrails shall show no permanent deformation of more than 3 % when tested in accordance with 7.9.	Front handlebar available.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>

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6.10.3	Treadmills with front handlebar and side handrails		
	<p>Either the side handrails shall be in accordance with 6.10.2 or the front handlebar shall be at a height between 800 mm and 950 mm above the running surface in any inclination. The front handle bar shall consist of a single grip-able length of minimum 500 mm or two grip-able lengths of minimum 175 mm located symmetrically to the longitudinal axis of the running surface with a minimum distance of 375 mm and a maximum distance of 675 mm from centre to centre.</p> <p>The side handrails and the front handlebar shall show no permanent deformation of more than 3 % when tested in accordance with 7.9. In the case of treadmills having both the side handrails and a front handlebar, both shall fulfil this requirement.</p>	<p>Side handrails:</p> <p>Width : 785 mm (Measured from centre to centre of the side handrails.)</p> <p>The height is between 805 mm and 940 mm above the running surface</p> <p>Length is exceeding line A.</p> <p>Front handlebar is useable in 2 parts, each 200mm long. The distance is 550mm from center to center.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
7.9	<p>Testing of side handrails / front handlebar</p> <p>The length of the handrails to the rear of the vertical projection of line B or a vertical projection of a line from the edge of any part of the front protection cover overlapping the running surface (see Figure 2) shall be measured. The measurement shall be made in the non-inclined position.</p> <p>Apply a test force of (1 000 ± 50) N vertically in the most onerous position of the side handrails/front handlebar by means of a belt with a width of (80 ± 5) mm for a period of minimum 5 min. Measure the maximum permanent deformation after removing the load.</p> <p>Apply a force of (500 ± 25) N horizontally using the belt in the same position as in the vertical test but in the most onerous horizontal direction of the side handrail/front handlebar for a period of minimum 5 min. Measure the maximum permanent deformation after removing the load.</p> <p>Determine the permanent deformation as a percentage of the side handrail length as measured in accordance with the first paragraph of this subclause.</p>		

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6.11	Foot rails		
7.10	<p>Testing of foot platforms</p> <p>Apply a force of twice the maximum user weight indicated in the user's manual or (2 000 ± 50) N, whichever is greater, by means of a test sole (305 ± 1) mm (80 ± 1) mm in the middle of the non-slip surface of each foot rail for a period of minimum 5 min.</p>	<p>Dimension of foot platform: L X W = 1355mm X 110mm</p> <p>Front of line A length: 430mm (29% of "f")</p> <p>Behind of line A length: 925mm (62% of "f")</p> <p>Non slip surface is: (W) 110 mm x (L) 1355 mm.</p> <p>Friction test: 0.65 > 0.5</p> <p>Load: 180 x 2 = 360kg</p> <p>No breakage of foot rail.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
	<p>Treadmills shall be equipped with foot rails, see Figure 1.</p> <p>The foot rails shall be a minimum length of 70 % of the length of the running surface "l" and have a minimum width of 80 mm.</p> <p>The foot rails shall cover at least 25 % of the length of the running surface l in front of line A and at least 45 % of the length of the running surface l behind line A, see Figure 2.</p> <p>The upper surface of the foot rails shall have a minimum width of 70 mm. They shall have a slip resistant upper surface over minimum 70 % of the exposed length of the foot rail. The slip resistant surface shall have a coefficient of friction in the most onerous direction of more than 0,5, when tested in accordance with ISO 5904.</p> <p>NOTE 1 Because of the narrow width of the foot rails, this test may be carried out on a shorter test length than specified in ISO 5904.</p> <p>The lowest measured force shall be used for the friction factor calculation. When tested in accordance with 7.10, the foot rail shall not break.</p> <p>The attachment of the side handrails to foot rails shall avoid a trip hazard.</p> <p>NOTE 2 This section does not apply to manual treadmills without incline or flywheel.</p>		

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6.12	Running surface		
7.11	<p>Permanent marking in a contrasting colour is required on the running surface to determine if the belt is either moving or stationary. At least one marking shall be visible from the top view in any position of the running surface.</p> <p>The markings on the running surface shall have a length between 150 mm and 450 mm and a width between 50 mm and 100 mm.</p> <p>The space between markings shall not be less than the width of the markings measured in the direction of travel. This requirement is only applicable for classes S and I.</p> <p>Test in accordance with 7.11.</p> <p>Testing of the running surface Visual and dimensional test.</p>	<p>Dimension of marking: L X W = 395 x 50 mm</p> <p>There is at least one whole marking in any position of the running surface.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
6.13	Acceleration		
7.12	<p>For motorised treadmills, the initial starting speed of the running surface shall not exceed the speed given in Table 2. The acceleration of the running surface, with the treadmill in an unloaded condition, shall not exceed 0,9 m/s².</p> <p>Test in accordance with 7.12.</p> <p>Testing of the acceleration Remove all loads from the treadmill. Provide a means of recording the instantaneous speed of the running surface. Measure the speed in 5 s intervals from the minimum to the maximum speed and calculate the acceleration between measured values.</p>	<p>Starting speed: 0.5 km/h</p> <p>Acceleration: 0.32 m/s²</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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6.14	Heart rate control mode (if applicable)		
7.13	<p>If a heart rate control mode is incorporated into the treadmill, the function of the heart rate system shall be indicated on the display, e.g. by a blinking heart or any other means.</p> <p>The loss of heart rate signal shall result in speed remaining at the same level for maximum 60 s and then decrease until the minimum speed is reached. The rate of decrease shall be at least 0,014 m/s² (1 km/h in 20 s).</p> <p>Test in accordance with 7.13.</p> <p>Testing of the heart rate control mode</p> <p>Set the treadmill to the heart rate control mode at a speed of 8 km/h and 0 % inclination. Use a heart pulse simulator or a person to activate the control mode. Cut off the signal and then check that the speed reduces according to the requirements shown in 6.14. If there are more than one heart rate control system, each system shall be tested.</p>	<p>The blinking heart in display console.</p> <p>When cut off signal, after 35s the speed starts decreased. Measured speed rate is 3 km/h in 20s.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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6.15	Folding treadmills		
	<p>A folding treadmill shall be equipped with a safe locking system to keep it in a folded position where the running surface is designed to be folded up for storage.</p> <p>A folding treadmill shall be equipped with a safe locking system to keep it in the useable position when the side handrails are designed to be folded down when stored.</p> <p>The folding portion shall not be capable of reaching a stable position of equilibrium before being locked.</p> <p>The maximum vertical handling force shall be less than 150 N.</p> <p>If there is stored energy, e.g. compressed gas spring, in the packaged position or in folded position, a safety device to avoid inadvertent release of the stored energy shall be provided.</p> <p>Test in accordance with 7.14.</p>	No such design.	P <input type="checkbox"/> F <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/T <input type="checkbox"/>
7.14	Testing of the folding treadmills		
7.14.1	Inadvertent release when packaged The prevention of inadvertent release of a folded treadmill as packaged by the manufacturer shall be verified by functional test and visual examination.		
7.14.2	For treadmill where the running surface is designed to be folded up when stored Place the treadmill in the unfolded position. Apply the folding procedure as defined in the user's manual. During the folding operation, ensure the locking system is positively engaged before reaching the position of equilibrium of the folded portion.		
7.14.3	For treadmill where the console is designed to be folded down when stored Place the treadmill in the folded position. Apply the unfolding procedure as defined in the user's manual. During the unfolding operation, make sure that an automatic locking system is activated before reaching the position of equilibrium of the unfolded portion.		
7.14.4	Testing the maximum handling force Measure the static vertical force required at the handling position as described in the user's manual to support the deck at 15°± 2°, 45°± 2° and 75°± 2° as measured with reference to the horizontal plane. If the highest position of the deck is less than 75°, the measurement shall be taken at 15°± 2°, 45°± 2° and at the highest unlocked position.		

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6.16	Noise		
7.16	<p>Information on airborne noise emission measured in accordance with 7.16 shall be given in the instructions for use of the motorized treadmill (see 10 l) and 10 m)</p> <p>Noise testing Measure the A-weighted emission sound pressure level at trainer's ears, LpA in accordance with EN ISO 11201 or EN ISO 11202 at a speed of the running surface of 8 km/h for class H equipment and 12 km/h for class S and I equipment in an unloaded situation.</p>	<p>Measured sound pressure level is 68.5 dB (A). This information is stated in the instruction manual.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
6.17	Electrical safety		
	<p>Concerning electrical and electronic aspects, the equipment shall meet the requirements of EN 60335-1 for general use and EN 60601-1 for medical use. The running surface or the incline mechanism shall not restart automatically after an interruption of the power supply.</p>	<p>Please refer to report 002 for EN 60335-1.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
6.18	Additional classified requirements		
	<p>Classes A, B and C shall fulfil the requirements of Table 2.</p>	<p>Speed, distance, time and incline level showed on the indicator.</p> <p>Incline function: -5% to 15%</p> <p>Max. speed : Display 20 km/h Min. speed : 0.5 km/h Increment : 0.1 km/h</p> <p>Max. running surface: 1480 mm X 560 mm → Class A</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>

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Table 2 – Classified basic requirements

	Class A	Class B	Class C	Testing
Read out (Display indicator)	speed, elevation (If fitted) In % (see Figure 4) Distance, time in SI units	speed, elevation (If fitted) In %, distance, time in SI units	none	visual test, performance test
Accuracy	time ± 1% distance ± 5% speed ± 5% Up to 2 km/h ± 0.1 km/h inclination (if any) ± 10 % accuracy above 2% inclination	time ± 1 % ^a distance ± 10 % speed ± 10 % up to 2 km/h ± 0,2 km/h inclination (if any) ± 15 % accuracy above 2% inclination	none ^b	6.15
Minimum length and width of the running surface for motor driven treadmills in mm	≤ 8 km/h: 1000x400 > 8 to 16 km/h: 1200x400 > 16 km/h: 1300x400	≤ 8 km/h: 1000x400 > 8 to 16 km/h: 1200x400 > 16km/h: 1300x400	1 000 x 325 ≤ 6 km/h(walking) > 6 km/h see class B	references to speed measuring test
Minimum length and width of the running surface I for manual driven treadmills in mm	not applicable	1 000 × 400	1 000 × 325	
Minimum speed	≤ 0.5 km/h, increments 0.1	≤ 2 km/h, increments 0.5	≤ 3 km/h	7.15

^a for mechanical timing devices ± 5% is allowed

^b in included:

- time ± 2^a
- distance ± 20%
- speed ± 20 % up to 3 km/h ± 0,3 km/h
- inclination ± 25 % accuracy above 2 % inclination.

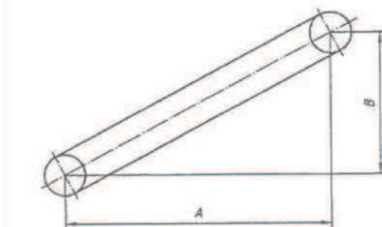


Figure 4 — Calculation of percentage of the inclination

The inclination α is to calculate as follows (see Figure 4):

$$\alpha = B/A \times 100$$

where

α is in %

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7.15 Testing of the accuracy of time, speed and distance indications

	<p>The accuracy of speed indications shall be determined in the unloaded condition at:</p> <ul style="list-style-type: none"> a) minimum speed, see Table 2, b) maximum speed, and c) half speed <p>for class A and for classes B and C only at maximum speed.</p> <p>Manually driven treadmills shall be driven by a wheel having a circumferential speed of 8 km/h to measure the accuracy of the speed indication of the running device.</p> <p>The accuracy of time measuring devices shall be tested over a time of 30 min.</p>	<p>The treadmill fulfilled the class A requirement.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
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6.19 Additional warning label

	<p>If a heart rate system exists:</p> <p>For classes S and I, a warning label with the following content shall be attached: "WARNING Heart rate monitoring systems may be inaccurate. Over exercising may result in serious injury or death. If you feel faint stop exercising immediately."</p> <p>The above label shall be placed in a conspicuous position on the display console.</p>	<p>Class S treadmill.</p>	<p>P <input checked="" type="checkbox"/></p> <p>F <input type="checkbox"/></p> <p>N/A <input type="checkbox"/></p> <p>N/T <input type="checkbox"/></p>
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8	Test report		
	<p>The test report shall include at least the following information:</p> <p>a) Name and address of testing facility and location where the test was carried out;</p> <p>b) Unique identification (such as serial number), page number, and total number of pages on each page;</p> <p>c) A reference to this European Standard;</p> <p>d) Name and address of client;</p> <p>e) Description and identification of the test item, e.g. serial number, test number, technical data;</p> <p>f) Date of receipt of test item and date(s) of performance of test;</p> <p>g) Identification of the test specification or description of the method or procedure;</p> <p>h) Description of sampling procedure (where relevant);</p> <p>i) Any deviations, additions or exclusions from the test specification, and any other information relevant to a specific test;</p> <p>j) Measurements, examinations and derived results, supported by tables, graphs, sketches and photographs as appropriate, and any failures identified;</p> <p>k) A statement on measurement uncertainty (where relevant);</p> <p>l) A signature and title or an equivalent marking of person(s) accepting technical responsibility for the test report and date of issue;</p> <p>m) A statement to the effect that the test results relate only to the items tested</p>	Informative.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>
9	Marking		
	<p>In addition to the marking requirements of EN 957-1, motor driven treadmills shall be marked visibly, legibly and indelibly with the following minimum particulars:</p> <p>a) the year of construction, that is the year in which the manufacturing is completed;</p> <p>b) the designation of the machinery</p> <p>c) the marking required by legislation.</p>	Required information is provided.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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10	Additional instructions for use		
	<p>In addition to EN 957-1 easy-to-understand instructions for use shall be supplied with each treadmill.</p> <p>The instructions for use shall include information on at least the following points, depending on the class:</p> <ul style="list-style-type: none"> a) Maximum user weight; b) Description and function of the immobilization method; c) Emergency dismount; d) Function of the safety stop; e) Clear safety area of at least 2 000 mm in length and at least as wide as the treadmill shall be provided behind the equipment when in use; f) Method of adjusting the tension and the lateral position of the running surface; g) Maximum allowed running surface lateral positions; h) Additional information for foldable treadmills: <ul style="list-style-type: none"> 1) Instructions for operating the folding mechanism and locking system; 2) Warning, that a folded treadmill should not be operated; 3) Warning, to allow the running surface to come to a complete stop before folding; i) When equipped with a pull-cord safety stop, an instruction on how to use, attach and test the pull-cord safety stop is required; j) If the heart rate is displayed a warning with the following content shall be given: "WARNING! Heart rate monitoring systems may be inaccurate. Over exercising may result in serious injury or death. If you feel faint stop exercising immediately". k) Suitable information about replacement parts that could affect the safe use of the treadmill; l) If applicable, the value of the A-weighted emission sound pressure level at the trainer's ear; m) The following statement: "Noise emission under load is higher than without load." 	Required information is provided.	P <input checked="" type="checkbox"/> F <input type="checkbox"/> N/A <input type="checkbox"/> N/T <input type="checkbox"/>

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7.15 Testing of the accuracy of time, speed and distance:

Speed			
	Display	Measured	Arrange
Min	0.5 km/h	0.49 km/h	2% < ± 5%
Half	10 km/h	9.95 km/h	0.5% < ± 5%
Max	20 km/h	19.86 km/h	0.7% < ± 5%

Time			
	Display	Measured	Arrange
Min	30min	30min	0 % < ± 1%
Half	30min	30min	0 % < ± 1%
Max	30min	30min	0 % < ± 1%

Distance			
	Display	Measured	Arrange
Min	0.25 km	0.24 km	4% < ± 5%
Half	5 km	4.96 km	0.8% < ± 5%
Max	10 km	9.82 km	1.8 % < ± 5%

End of test report