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Report No.: STUESO019011102054HS

TEST REPORT EN ISO 20957-1 Stationary training equipment — Part 1: General safety requirements and test methods

Report Number...... STUESO019011102054HS

Tested by (name + signature): Frank Lin

Approved by (name + signature).....: Tony Li

Date of issue 2019-01-31

Total number of pages18

Testing Laboratory V-Trust Inspection Service Co., Ltd.

1107-1109, West tower, Poly World Trade Centre, 1000 Xingang

Rd E., Guangzhou, China 510335.

1AD, UK

Test specification:

Standard EN ISO 20957-1:2013

Test procedure Test report

Test item description Align-Pilates Combo Chair II

Trade Mark Align-Pilates

Manufacturer Align-Pilates Equipment Ltd

430, Enterprise Way, Vale Park, Evesham, Worcestershire, WR11

1AD, UK

Model/Type reference PAPCHAIR2

Ratings Usage classes S



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List of Attachments:

ANNEX I: Photos

Summary of testing:

Test according to the following standards were carried out:

EN ISO 20957-1:2013

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Product: Align-Pilates Combo Chair II

Model: PAPCHAIR2

Usage Classes: S

Max. user weight: 150kg

Production date: MMYYYY

Manufacturer: Align-Pilates Equipment Ltd

Address: 430, Enterprise Way, Vale Park, Evesham,

Worcestershire, WR111AD, UK

Remark:

For EU market: As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by endusers and market surveillance authorities.

The batch or series number or other element allowing its identification will be marked on the product.



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Test item particulars:	Align-Pilates Combo Chair II
Classification of installation and use:	Stationary appliance for professional or commercial use
Supply Connection:	WIRUST WIRUST WIRUST VA
Possible test case verdicts:	AUST VATRUST VATRUST
test case does not apply to the test object:	N (Not applicable)
test object does meet the requirement:	P (Pass)
test object does not meet the requirement:	F (Fail)
Testing:	ST TRUST VATADO
Date of receipt of test item:	2019-01-14
Date (s) of performance of tests:	2019-01-14 to 2019-01-25
General remarks:	THE WAST WITHEST
The test results presented in this report relate only to th This report shall not be reproduced, except in full, witho "(see Enclosure #)" refers to additional information ap "(see appended table)" refers to a table appended to th	ut the written approval of the Issuing testing laboratory. pended to the report.
Throughout this report a $igtimes$ comma / $igcap$ point is used	as the decimal separator.
General product information:	TAUST WIRUST WITH



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	EN ISO 20957-1		
Clause	Requirement - Test	Result - Remark	Verdic
V	T ANIST WIRUST	COUST ATRUST VA	(7100
41	Classification		Pra
4.1	General	ST VITAUS! VALLE	Р
VATAUS.	Equipment shall be classified in accordance with accuracy and usage class as described in 4.2 to 4.3	TRUST VATRUST VATRI	P P
JST VAT	If the intended use of an equipment is for more classes it shall fulfill the requirements of each intended class	VATRUST VATRUST	N
4.2 UST	Accuracy classes	S 1/13	JSTN -
4.2.1	Accuracy classes only apply to equipment which display training data	A ST TRUST	N
4.2.2	Class A: high accuracy		Ŋ
4.2.3	Class B: medium accuracy	US LATRUST VATRUS	N
4.3.4	Class C: minimum accuracy	COUST NAT	USTN
4.3	Usage classes	ATJUST WITHOUT	Pis
4.4.1	Class S (Studio): professional and/or commercial use	WIRUST WIRUS	P
4.4.2	Class H (Home): domestic use	JUST VATAUST VATA	N
4.4.3	Class I: professional and/or commercial use provided for inclusive use for people with special needs	WIRUST WIRUST WIT	N ATAU
RUST	Such equipment shall also be in compliance with class S requirements.	WHOST WHOS	NA
5 KTRUST	Safety requirements	705 V	(3USP
5.1	General	WIRUST WIRDS	Р
TRUST \	If any of the following safety requirements are applicable, the equipment shall meet the requirements using the test methods described in Clause 6.	T WIRUST WIRUST	P
5.2	Stability of equipment	T GRUST VA	13UP
ST VATE	The stationary training equipment shall be stable in any direction, in training, folding and storage positions.	ATRUST VATRUST	Pal
TRUS	The test shall be in accordance with 6.2.	T WAIST VATAL	S ^T P∖
5.3	External construction	TRUST VALLE	BT
5.3.1	Edges and corners	TRUST VATRUS! V	Р
15T NT	All edges and corners of surfaces supporting bodies shall have a radius r ≥ 2,5 mm.	T TRUST VATRUST	P



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	EN ISO 20957-1		
Clause	Requirement - Test	Result - Remark	Verdict
Action	TRUST VATRUST VATRO	TRUST \	KTIO
ST VAT	All other edges of components which are accessible to the user or to third parties shall be free of burrs, rounded or protected.	ST WIRUST WIRUST	Prau
(1303)	Test in accordance with 6.3.1.	THE PROPERTY WATE	A P
5.3.2 TSUS	Tube ends	Trus VI	PST
ust Vit	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.	T AJUST WTJUST	P
ATRUST VATRUS UST VA	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.	TRUST ATT	ATTEN ATTEN
5.3.3	Squeeze and shear points within the accessible hand and foot area	IS NATRUST NATIO	P
RUST VA	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:	ATRUST WIRUST	P VATRUST
ATRUCT	a) if only the fingers are at risk, the dimension shall be at least 25 mm;	UST VITRUS W	RUST
	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;	WIRUST WIRUST	P
WTRUST	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;		PIN
TRUST	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.	T WITHUST WITH	JST V
MISUS	All products shall fulfil the above requirements during use.	ATRUST VATRUST V	TRUPT
TRUST	For foldable products during folding or unfolding, the above requirements are waived if the following three requirements are simultaneously met:	ST WIRUST WIRUST	UST V
VATRUST	- inadvertent movement is not possible during folding, unfolding, transportation and/or storage;	TRUST WATER	TRUST
IST VIT	- access to squeeze and shear points remain at all times in the user's field of vision;	WITOS VI	Nrai



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	EN ISO 20957-1		
Clause	Requirement - Test	Result - Remark	Verdic
1	TOUST WITHOUT WITHOUT	ATRUST V	(1303.
5.3.4 T	Squeeze and shear points as well as rotating and reciprocating points in the accessible hand and foot area	ST WIRUST WIRUST	N ₂
VATRUS	The distance between movable parts or between a movable and a fixed part shall be at least 60 mm except as follows:	TRUST WITHUST WITH	N TRUST
JST VAT	a) if only fingers are at risk, the dimension shall not be less than 25 mm;	ST TRUST VIRUST	NT
VATRUS	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;	THE TRUST WITH	JSI _N
USI VA	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.	IS WIRUST WIRUST	UST
VATA	Test in accordance with 6.3.3.	ATJUST .	ATN
5.3.5	Weights and resistant means	MISOR ACT	Ph
ATRICA	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.	UST VATRUST VATRUST VATRUST	PRUST
ATAUST	Weights and resistant means with stored energies (e.g. bungee cords, elastic tubes, mechanical springs) shall move freely and return to the starting point.	ATRUST VATRUS	P
N	Weights shall be securely retained during use.	ATRUST VATRUST VA	N
5.4	Entrapment of the user	VIST ATRUST	N
IRUST VATRUST	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).	RUST WATRUST WATRUST	TRUST
ST \\/T3	Test in accordance with 6.4	WISOS, W.	N
5.5 3UST	Adjustment components and locking mechanisms	T WIRUST WITHUS	Р
WIRUST ST WIT	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.	TRUST VATRUST VATRUST VA	P



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	EN ISO 20957-1		
Clause	Requirement - Test	Result - Remark	Verdict
	TAUST ATRUS	COUST WIRUST V	(110
ST VAT	Adjustment components and locking mechanisms e.g. knobs and levers shall not interfere with the user's range of movement.	ST WITHUST WITHUST	PIR
VATRUS	Weight selection pins shall be fitted with a retention device to prevent unintended change or movement during the exercise.	TRUST WIRUST	N TRUST
JST V	Test in accordance with 6.5.	W ST STAUST	PT
5.6 TRUST	Ropes, belts, chains and attachment components	ST VAROS VI	UST N
5.6.1	General Name of the State of th	A ST TRUE	N
	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	IS WATEUST WATEUST	VAT
VATRI	of the pulleys and the bending radius shall be in accordance with the applicable requirements of the rope, belt or chain manufacturers.	KTRUST VATRUST	VIRUS
	Ropes, belts, chains and their attachment components shall not break and function as described in the user's manual	UST VATRUST VATRUS	N/T
	Test in accordance with 6.6.	ATRUST VATROS. VA	N
5.6.2	Ropes and belts	COUST VATAUST	N
ATZUST	Rope and belt ends shall be, as a minimum, flush with the end of the termination means and shall be visible for inspection.	RUST VATRUST VATRUS	T NA
ST VAT	Pressed connections shall not be subjected to bending.	WIRUST WIST	N
TRUST 1	Rope and belt ends and grips shall have no sharp edges or frayed ends.	T WARUST WARE	N
MAZUS	Test in accordance with 6.6.	RUST VATTO	N
5.6.3	Rope and belt guides	ATRUST WITHINGT W	N
ST VAT	A means shall be provided to prevent a rope or a belt becoming unintentionally disengaged during use or set-up.	ST VATRUST VATRUST	of V
(-7119	Test in accordance with 6.7.	TRUST VATRUS! VALIS	N
5.7	Pull in points of	ATRUST V	N



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	EN ISO 20957-1		
Clause	Requirement - Test	Result - Remark	Verdict
ST VATA	Pull-in points of rope or belt drives up to 1 800 mm height shall be protected except if the surface pressure is ≤ 90 N/cm² or when access to the pull-in point is prevented by the user's body during exercising.	ST WIRUST WIRUST	NA ST V
JST VAT	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	IST WARDST WARREST	N
XI-10	Test in accordance with 6.3.5.	ST TRUST ATR	N
	Pull-in points for chains, gears and sprockets shall be protected in accordance with ISO 12100.	TRUST	KTANST
USI V	For flywheels the test finger (see Figure 1) shall not become trapped when tested in accordance with 6.8.	IS WIRUST WIRUST	NT.
5.8	Hand grips	KTRUST VITAUS VI	P
5.8.1	Integral handgrips	GRAUST VATRUST 1	N
ATRUCT	Gripping positions shall be easily identifiable and designed to reduce slipping (e.g. textured, coated, knurled). Test in accordance with 6.9.	UST VATRUST VATRUST	NT
5.8.2	Applied handgrips	ATRUST VATROS VI	Р
RUST	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.	ALTRUST VATRUST	P
5.8.3	Rotating handgrips	LIST LATRUST VA	N
ST VATA	Rotating handgrips shall be secured during use and shall be designed to reduce slipping (e.g. textured).	TRUST VARUST	NUS
TRUST \	Test in accordance with 6.11	TRUST NATRUS	TNA
5.9	Endurance test	RUSI VITTO	-211 S T
ST VATR	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.	TATAUST VATAUST	P
5.10	Isometric test requirements	ICT ATAUST VATAU	e N
WIZUST IST WAT	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 ± 10 % in the range of measurement given in the user's manual and the read outs shall be SI units.	ST WIRUST WIRUST	TRINT
1303 ' '	Test in accordance with 6.13.	cT . 173	N



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	EN ISO 20957-1		
Clause	Requirement - Test	Result - Remark	Verdic
	ANIST ATRUS	ACCUST LATRUST V	(110
5.11	Heart rate measurement system	Wind Caust	NR
TRUST	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.	TRUST VATRUST VATR	IST N
	Test in accordance with 6.14.	TRUST VATAGE	N
5.12	Heart rate control mode	T ARUST WIRUST	N
VATRU	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.	TRUST ATT	USTN TRUST
UST VA	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.	IS WIRUST WIRUST	N.T
No.	Test in accordance with 6.15.	ATAUST WITHUST	N
5.13	Electrical safety	V-13US	N
ATRICE TR	Concerning electrical and electronic aspects of stationary training equipment EN 60335-1 shall be applied. For medical devices EN 60601-1 shall be applied.	UST VATAUST VATAUST VATAUST	RUS-N
5.14	Loading	TARUSI VAINE	P
5.14.1	Intrinsic loading 473UST	TAUST VATRUE	Р
VATRUST T VAT	Each piece of equipment loaded with the user's bodymass shall withstand a force Fof 2,5 times the bodymass.	WIRUST WATRUST WA	13USP
RUST	After the test the equipment shall not be broken and shall still function as intended by the manufacturer.	ATRUST ATRUST	P
141400	Test in accordance with 6.16.	LIST ATBUST VA	L30B,
5.14.2	Extrinsic loading	WITOS W	AP31
TRUST VATRUS	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): $F = [Gk + 1,5 \ G] \cdot 2,5 \cdot 9,81 \text{m/s}^2$	TRUST WIRUST WIRUST WIRUST WIRUST WIRUST	TRUST



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13US1	EN ISO 20957-1		IST VA
170	-151 /1705	LUST WITHER WITH	1
Clause	Requirement - Test	Result - Remark	Verdict
ST VA	After the test the equipment shall not be broken and shall still function as intended by the manufacturer.	ST WIRUST WIRUST	PRU
(1305)	Test in accordance with 6.17	THE WATER	Р
5.15	Care and maintenance	1700° V	TRIP
JST VA	Care and, if applicable, maintenance advice shall be provided with each piece of equipment. The advice shall include at least:	ST VARUST VARIUST	PTRI
VATRU	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;	RUST WIRUST	P
ATRUST	b) an advice to replace defective components immediately and/or keep the equipment out of use until repair;	IS VATRUST VATRUS	P
VATRI	c) special attention to components most susceptible to wear.	ARUST VATRUST	PIST
RUST V	Test in accordance with 6.18.	Traus	P
5.16	Assembly instructions	UST VATABO	Р
T TR	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.	WIRUST WIRUST	P VATRUS
T VAT	If the stationary training equipment requires assembly, then a list of tools needed shall be provided.	WIRUST WIRUST	ALLANS
TRUST	If the stationary training equipment requires assembly, then a comprehensive parts list shall be supplied, including identifying part numbers.	RUST VATRUST VATRU	ST P
ST 1/5T	The manufacturer shall indicate the total mass and the total surface area (e.g. foot print) of equipment.	WIRUST WIRUST	P 13U
TRUST	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.	TRUST WIRUST WIR	JST N
ST VA	The manufacturer shall provide the minimum value (force) each attachment shall support.	WIRUST WIRUST	P
CT	Test in accordance with 6.18.	ST WIRUST WIRUS.	Р
5.17	General instructions for use	IST ATT	Asy P



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TRUSI	EN ISO 20957-1	TIST ATTRU	ST V
Clause	Requirement - Test	Result - Remark	Verdict
ST VAT	Each item of stationary training equipment shall be accompanied by a user's manual, in the national language including at least the following information.	ST WIRUST WIRUST	PRU
VATAUS	a) Customer service address.	13021 Acts	PST
	b) Full address of the manufacturer or importer.	WIRUST WIRUS	Р
Si M	c) Indication of field of application (e.g. indoor use, explanation of the usage class).	ST WAUST WIRUST	P
UST VATRUST	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.	IS WIRUST WIRUST	P TRUST VATT
RUST V	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.	THE WIRDS WIRDS	P
T TRI	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.	WIRUST WIRUST WIRUST	P ATRUS T AT
T VIT	g) Texts concerning difficult or complicated manoeuvres shall be accompanied by illustrations.	ARUST WATEUST	Paus
raust v	h) Instruction on how to safely use access and escape assist means.	TRUST WITH	T PA
VATRUS	i) Design illustration.	TRUST IN	TRUPT
ST VAT	j) Warning that if any of the adjustment devices are left projecting, they could interfere with the user's movement.	ST WIRUST WIRUST	P
1305.	k) Warning that free standing equipment shall be installed on a stable and levelled base.	TRUST VATRUST VATRU	PV
IST IN	I) Setting of the load and equipment further adjustments (e.g. seat adjustments).	WIRUST WITHUST W	P
	m) Indication of the maximum user body mass.	IST WIRUST WIRUS	Р
(1302)	n) Indication of the maximum training mass, if applicable.	TRUST VATA	JSI N V



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	EN ISO 20957-1		
Clause	Requirement - Test	Result - Remark	Verdic
A.	TOUST ATRUST	LAUST LATRUST V	(1.0
ST VAT	o) Explanation of the displayed data, if applicable.	VATAGE CONTENT	NR
	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".	TRUST WATRUST WATR	ST N
IST V	Test in accordance with 6.18.	TAUST ATAUST	PT ²
5.18	Marking	ST MANDY	P
WI3US	Stationary training equipment shall be permanently marked with the following minimum information:	RUST WIT	P 1/13US
JST VA	a) name or trademark and full address of the manufacturer, supplier or importer;	A TAUST	P
TRUST	b) maximum body mass of user and the maximum training mass for the individual exercise stations (if applicable);	TRUST VATRUST VAT	UST
UST V	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;	UST VATRUST VATRUST	P
ATRU	d) individual code number (which contains information about type and year of manufacture);	ATRUST WITHUST WIT	RUS P
RUST	e) graphical symbol or written information in the national language(s) instructing the user to read the information supplied by the manufacturer;	WIRUST WIRUST	P
VATAUST T VATA	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.	T WIRUST WIRUST	NATAU NATAU
1303.	Test in accordance with 6.18.	TAUST VATAUS	Р
S ATRUST	Test methods	RUS V	TRUPT
3.1	Test conditions	WIRUST WIRUS V	Р
TRUST .	All testing shall be performed under the following conditions:	ST WIRUST WIRUST	P
1	a) temperature of 23 °C ± 5 °C;	20 °C, RH 64 %	Р
	b) relative humidity of 55 % to 75 %	1700 V	TRUST
5.2	Stability test	MISUS! WILLIAM	P
6.2.1	Test in training position	ST LATIUST VATRUET	Р
TRUST	Place the equipment on $a^{(10\frac{-2}{0})^n}$ incline surface, in the most onerous position.	T STRUST VATRI)51 P \



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Perform exercise(s) that involve(s) the user's mass, with the equipment loaded with a person weighin (100 ± 5)kg, using the minimum as well as the maximum load, over the full range of exercise motion. 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. The equipment shall not tip over in either test. The test person shall not lean or try to influence the balance of the machine. Test in folded/storage position Place equipment, folded according to the user's manual, on a (***2**) incline surface The equipment shall not tip over in either test. 6.3 External construction Test of edges and corners Test by measuring the radius and visual and tactile examination Tube ends 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. The pull-out test shall be performed in a quasi static manner with an appropriate device. 6.3.3 Testing of squeeze and shear points and rotating and reciprocating points Measure the minimum distance between two moving parts or a moving part and a fixed part. 6.3.4 Weights and resistant means 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. 6.3.5 Testing of pull-in points Apparatus: test finger in accordance with Figure 1. Surface hardness ≥ HRC 40 (measured in	(1302)	EN ISO 20957-1	TAIST VATAU	ST V
with the equipment loaded with a person weighin (100 ± 5)kg, using the minimum as well as the maximum load, over the full range of exercise motion. 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. The equipment shall not tip over in either test. The test person shall not lean or try to influence the balance of the machine. 6.2.2 Test in folded/storage position Place equipment, folded according to the user's manual, on a (100 ± 2) incline surface. The equipment shall not tip over in either test. 6.3 External construction 6.3.1 Test of edges and corners Test by measuring the radius and visual and tactille examination 6.3.2 Tube ends 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. The pull-out test shall be performed in a quasi static manner with an appropriate device. 6.3.3 Testing of squeeze and shear points and rotating and reciprocating points Measure the minimum distance between two moving parts or a moving part and a fixed part. 6.3.4 Weights and resistant means A performance test using the maximum and minimum resistance or weights (e.g. incremental weights) shall be carried out over the maximum range of movement. 6.3.5 Testing of pull-in points Apparatus: test finger in accordance with Figure 1. Surface hardness ≥ HRC 40 (measured in	Clause	Requirement - Test	Result - Remark	Verdict
with the equipment loaded with a person weighin (100 ± 5)kg, using the minimum as well as the maximum load, over the full range of exercise motion. 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. The equipment shall not tip over in either test. The test person shall not lean or try to influence the balance of the machine. 6.2.2 Test in folded/storage position Place equipment, folded according to the user's manual, on a (100 ± 2) incline surface. The equipment shall not tip over in either test. 6.3 External construction 6.3.1 Test of edges and corners Test by measuring the radius and visual and tactille examination 6.3.2 Tube ends 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. The pull-out test shall be performed in a quasi static manner with an appropriate device. 6.3.3 Testing of squeeze and shear points and rotating and reciprocating points Measure the minimum distance between two moving parts or a moving part and a fixed part. 6.3.4 Weights and resistant means A performance test using the maximum and minimum resistance or weights (e.g. incremental weights) shall be carried out over the maximum range of movement. 6.3.5 Testing of pull-in points Apparatus: test finger in accordance with Figure 1. Surface hardness ≥ HRC 40 (measured in	<u> </u>	AUST WIRUST WIRUS. W.	- TRUST WIRUS' W	
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Surface hardness ≥ HRC 40 (measured in	6.3.5	Testing of pull-in points	MISON WILL	N
accordance with ISO 6508-1).	TRUST		ST WIRUST WIRUST	N



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Isna.	EN ISO 20957-1	TALL STALL	SI VI
Clause	Requirement - Test	Result - Remark	Verdict
	ANIST ARUS.	WIST WITH	(1,0
	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/cm² in any part of the mechanism.	TRUST WIRUST TRUST WIRUST WIRUST WIRUST WIRUST WIRUST	ST VE
3.4 ^{2UST}	Testing of entrapment	THE THE	USTN V
VATRUS	A visual and performance test shall be carried out to determine whether or not the user can become entrapped.	TAUST	NST (ST
5.5 1473UST	Adjustment components and locking mechanisms	IS VITAUST VITAUS	P
ATRUS	Perform a visual and functional examination before, during and after every test.	ATRUST VARIOUST	P
6.6 UST	Tensile test for ropes, belts, chains and attachment components	VARUST VARUS	N
ATRUST TRU	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.	WITHUST WITHUST WAT	RUS N
6.7	Testing of rope and belt guides	- COUST VATRUS	NAT
ATRUST	Perform a functional test.	2US1 VALID	TalisN 1
6.8	Testing of flywheels	ATRUST WIRUST W	N
	Transmission elements and rotating parts	V COUST NATIUST	N



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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. Key		EN ISO 20957-1		
into any possible entrapment point between the drive and transmission elements, while the equipment is in normal operation. **Revy Handle** **Reviews 2.40 µm Surface hardness 2. HRC 40 (measured in accordance with EN ISO 8508-1) **Figure 1 — Test finger* Do not introduce the test finger beyond the edge of the protective covering. Determine whether the test finger becomes trapped. **Testing of integral handgrips* Perform a functional test. 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. 6.11 Testing of rotating handgrips Perform a functional test. 6.12 Testing of endurance load Carry out the test as close as possible to normal exercise frequency and free of shocks for: a) class H 12 000 cycles over 80 % of the possible range of movement; b) class S 100 000 cycles over 80 % of the possible range of movement; 1) with maximum load; 2) in direction of load in accordance with the exercise instructions fixed by a 50 percentile man; 3) with a frequency of movement in accordance	Clause	Requirement - Test	Result - Remark	Verdict
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2) in direction of load in accordance with the exercise instructions fixed by a 50 percentile man; 3) with a frequency of movement in accordance	TRUST		RUST VARUST VARU	ST PV
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	EN ISO 20957-1		
Clause	Requirement - Test	Result - Remark	Verdict
Oldusc	Troquirement - Test	TOSUK - TOMAK	Verdict
IST VATE	If the equipment offers multiple exercise stations the test shall be done with all stations and functions as described in the user's manual.	ST VATRUST VATRUST	PRU
6.13	Testing of isometric equipment	TRUST WITH WITH	N
UST VAT	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.	ST VARUST VATRUST	ALSIN .
KT3US'	Perform the test using the following three values:	TRUST VATA	nz, N
ATRUS	minimum		MST
	maximum (73US)	1 10 MARIO	N
inzi A	a third random value between these two points	COUST VATRUST	N
6.14 UST	Testing of the heart rate measurement system	(5) (7)	USTN
T WIRUS	Perform a visual test by using the heart rate measurement system	TRUST VATRUST	N
6.15	Testing of the heart rate control mode	VISUS! VAIS	N
T TRUET	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.	UST ATRUST ATRUST ATRUST ATRUST ATRUST ATRUST AUST ATRUST	N RUST ATRUS
	Test the heart rate indicator by visual testing.	ATRUST VATRUST VA	N
6.16	Testing of intrinsic loading	TRUST ATRUST	V PUS
TRUST V	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.	RUST VATRUST VA	TRUST
ST VITT	Only equipment that requires anchoring for normal use shall be fixed during the test.	T ATRUST ATRUST	Naus
6.17	Testing of extrinsic loading	TAL ATAL	ST P
VATRUST JST VAT	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	TRUST VATRUST VATRUST	TRUST



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T3U51 1	EN ISO 20957-1	LAIST WIRU	ST VAT
Clause	Requirement - Test	Result - Remark	Verdict
4	T WAIST WIRDS	LAUST NATAUST VI	(110
ST VIT	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.	ST WARUST WARUST	Praus
VATRUS	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.	TRUST VATRUST VATRUST V	(TRUST
6.18	Testing of care and maintenance, assembly instructions, general instructions for use and marking	ST VARUST VATRUST	PTRU
KING	Verify the information provided by the manufacturer versus the equipment being tested.	A FT TRUST VATE	P

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VATRUST



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VATRUST



-- End of the report --