VERIFICATION OF CONFORMITY

S/N: 006393

No.: **ICR/VC/HT230906**

Name and address of Applicant	Yiwu Changhao Locks Co., Ltd No.18, Chengdiannan Road, Choujiang District, Yiwu, Zhejiang, 322000, China
Name and address of manufacturer:	Yiwu Changhao Locks Co., Ltd No.18, Chengdiannan Road, Choujiang District, Yiwu, Zhejiang, 322000, China
Product name:	combination lock, key box, luggage strap
Product types:	see pages 2/3 – 3/3
Product trademark:	Changhao

Verification was carried within following scope:

Information on the Declaration of Conformity:

Result:	**Legislation:**	**Standard:**
✓	MD	EN ISO 12100:2010

The assessment process has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:

Test report(s):	QA20230123MD
Tests conducted by:	QA Testing Certification Co., LTD
Issue date:	25.09.2023
Expiration date:	24.09.2028

Remarks:

- VoC was issued on voluntary basis and does not imply meeting all essential requirements listed in Declaration of Conformity.

CEO, ICR Co., Ltd.

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Edition: 5.1.0.A of 01.03.2023

VERIFICATION OF CONFORMITY

S/N: 006393

No.: **ICR/VC/HT230906**

Product name: combination lock, key box, luggage strap

Product types:

Key storage box series:
CH-801, CH-802, CH-803, CH-805 CH-806, CH-807, CH-808, CH-818, CH-807-L, CH-807-2, CH-807-3, CH-866, CH-809, CH-910, CH-911, CH-822, CH-817, CH-827, CH-817P, CH-827P, CH-837, CH-847, CH-886, CH-861, CH-930

17B series:
CH-17B, CH-17C, CH-17D, CH-17E, CH-17B-L, CH-17C-L

Gym padlock series:
CH-603, CH-604, CH-604-L, CH-605, CH-606, CH-607, CH-608, CH-609, CH-610, CH-611, CH-613, CH-615, CH-617, CH-618

Travel lock series:
CH-19H, CH-13H, CH-603-2, CH-24H, CH-016A, CH-017A, CH-17H, CH- 14H, CH-15H, CH-16H, CH-606-1, CH-606-2, CH-015A, CH-008H, CH-600, CH-601 CH-602 CH-601-L, CH-602-L

TSA padlock series:
TSA532, TSA558, TSA541, TSA561, TSA-551, TSA-552, TSA-553, TSA-554, TSA-330, TSA-309, TSA-527, TSA-719, TSA-385, TSA-386, TSA-122, TSA-338, TSA-335, TSA-331, TSA-301, TSA-302, TSA-21105, TSA-526, TSA-528, TSA-13219, TSA-12022, TSA-616, TSA-20988, TSA-21100, TSA-13226, TSA16163

TSA case lock:
TSA-050, TSA-052, TSA-054, TSA-055

Steel wire series:
CH-20A, CH-21B CH-835, CH-28A, CH-839, CH-31, CH-32S, CH-33, CH-35, CH-017L, CH-017L, CH-001, CH-015, CH-016, CH-138, CH-027

Cartoon lock series:
CH-02B, CH-10B, CH-13A, CH-13B, CH-14A, CH-14B, CH-15B, CH-19B, CH-05B, CH-07A, CH-25B, CH-28B, CH-20B, CH-09B, CH-07B, CH-07D, CH-07C, CH-11B, CH-08A, CH-02A

Brass lock series:
CH-04B, CH-04K, CH-04E, CH-04F, CH-04H, CH-04W, CH-04Y, CH-04Z, CH-CX02, CH-CX03, CH-CX04

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Edition: 5.1.0.A of 01.03.2023

VERIFICATION OF CONFORMITY

S/N: 006393

No.: **ICR/VC/HT230906**

Product name: combination lock, key box, luggage strap

Product types:

Other series:
CH-7182, CH-7183, CH-7184, CH-701, CH-715B, CH-710B, CH-707C, CH-707A, CH-707A-5 CH-713B, CH-719B, CH-715B-3, CH-719B-2, CH-30, CH-715B-2, CH-707A-2, CH-713B-2, CH-707A-3

Aluminium alloy lock series:
CH-03B, CH-03K, CH-03E, CH-03F, CH-03W, CH-06B, CH-06K, CH-06E, CH-06F, CH-06W

Bike lock:
CH-202, CH-202T, CH-203, CH-203S, CH-108, CH-109, CH-5018, CH-5016, CH-402, CH-406, CH-501, CH-506

Other series:
CH-22B, CH-22D, CH-22C, CH-901, CH-902, CH-K04, CH-Bear, CH-HB30, CH-36, CH-37, CH-40

Luggage tag, Small chain

lanyard series:
TSA-319, TSA-319-2, CH-18C, CH-18A, CH-18D, CH-18E, CH-18A-2

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CE

Technical Construction File

According to

2006/42/EC Machinery Directive

presented by

QA Testing Certification Co., LTD

Technical Construction File EN ISO 12100: 2010Safety of machinery — General principles for design — Risk assessment and risk reduction	
TCF Name Address	QA Testing Certification Co., Ltd. Second floor, Building 1, No58 Jidian Road, Hangzhou Bay NewDistrict, Ningbo City, Zhejiang Province, P.R. China
Applicant's Name **Address**	Yiwu Changhao Locks Co., Ltd No.18, Chengdiannan Road, Choujiang District, Yiwu.Zhejiang, 322000, China
Manufacturers **Address**	Yiwu Changhao Locks Co., Ltd No.18, Chengdiannan Road, Choujiang District, Yiwu.Zhejiang, 322000,China
Test specification **Standard……:** **Test procedure……..:** **Council directives……:** **Non-standard test method…..:** **Testing** **Date of receipt of test item…:** **Date(s) of performance of test…:**	 EN ISO12100:2010; CE 2006/42/EC N/A 2023-09-15 2023-09-15---2023-09-25
Test item description……: **Model and/or type reference….:** **Trade Mark……:**	combination lock, key box, luggage strap Refer to model list

TCF By Name:Zhangzhigang	Review By Name: Qingang
 Date: 2023-09-25	 Date: 2023-09-25

TCF case verdicts

TCF case does not apply to the test object……..:	N(A)
TCF item does m meet the requirement……..…..:	P(ass)
item does not meet the requirement……..……:	F(all)

Model list

Key storage box series:

CH-801 CH-802 CH-803 CH-805 CH-806 CH-807 CH-808 CH-818 CH-807-L CH-807-2 CH-807-3 CH-866 CH-809 CH-910 CH-911 CH-822 CH-817 CH-827 CH-817P CH-827P CH-837 CH-847 CH-886 CH-861 CH-930

17B series:

CH-17B CH-17C CH-17D CH-17E CH-17B-L CH-17C-L

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Travel lock series:

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CH-606-1 CH-606-2 CH-015A CH-008H CH-600 CH-601 CH-602 CH-601-L CH-602-L

TSA padlock series:

TSA532 TSA558 TSA541 TSA561 TSA-551 TSA-552 TSA-553 TSA-554 TSA-330 TSA-309 TSA-527 TSA-719 TSA-385 TSA-386 TSA-122 TSA-338 TSA-335 TSA-331 TSA-301 TSA-302 TSA-21105 TSA-526 TSA-528 TSA-13219 TSA-12022 TSA-616 TSA-20988 TSA-21100 TSA-13226 TSA16163

TSA case lock: TSA-050 TSA-052 TSA-054 TSA-055

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CH-001 CH-015 CH-016 CH-138 CH-027

Cartoon lock series:

CH-02B CH-10B CH-13A CH-13B CH-14A CH-14B CH-15B CH-19B CH-05B CH-07A CH-25B CH-28B CH-20B CH-09B CH-07B CH-07D CH-07C CH-11B CH-08A CH-02A

Brass lock series:

CH-04B CH-04K CH-04E CH-04F CH-04H CH-04W CH-04Y CH-04Z CH-CX02 CH-CX03 CH-CX04

Other series:

CH-7182 CH-7183 CH-7184 CH-701 CH-715B CH-710B CH-707C CH-707A CH-707A-5 CH-713B CH-719B CH-715B-3 CH-719B-2 CH-30 CH-715B-2 CH-707A-2 CH-713B-2 CH-707A-3

Aluminum alloy lock series:

CH-03B CH-03K CH-03E CH-03F CH-03W CH-06B CH-06K CH-06E CH-06F CH-06W

Bike lock:

CH-202 CH-202T CH-203 CH-203S CH-108 CH-109 CH-5018 CH-5016 CH-402 CH-406 CH-501 CH-506

Other series: CH-22B CH-22D CH-22C CH-901 CH-902 CH-K04, CH-Bear CH-HB30 CH-36 CH-37 CH-40

Luggage tag， Small chain

lanyard series: TSA-319, TSA-319-2,CH-18C, CH-18A, CH-18D, CH-18E CH-18A-2

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
1	Essential health and safety requirements	–	–
1.1	General remarks	–	–
1.1.1	Definitions	–	–
1.1.2	Principles of safety integration	–	–
a)	Machinery must be so constructed that it is fitted for its function, and can be adjusted and maintained without putting person at risk when these operations are carried out under the conditions foreseen by the manufacturer.	These specified requirements have been complied with.	Pass
	The aim of measures taken must be to eliminate any risk of accident throughout the foreseeable lifetime of the machinery, including the phases of assembly and dismantling, even where risks of accident arise from foreseeable abnormal situations.	Appropriate measures have been taken to eliminate or reduce those existed risks.	Pass
b)	In selecting the most appropriate methods, the manufacturer must apply the following principles, in the order given;	–	–
	–Eliminate or reduce risks as far as possible;	The measures have been taken to eliminate or reduce risks as far as possible.	Pass
	– Take the necessary protection measure in relation to risks that can't be eliminated;	Appropriate guards and warning signs are used.	Pass
	– Inform users of the residual risks due to any shortcomings of the protection measures adopted, indicate whether any particular training is required and specify any need to provide personal protection equipment.	The related safety information for the users to operate the machine has been included in the instruction manual.	Pass
c)	When designing and constructing machinery, and when drafting the instructions, the manufacturer must envisage not only the normal use of the machinery but also uses which could reasonably be expected.	All safety principles have been taken into account as far as possible during the design of these machines.	Pass
	The machinery must be designed to prevent abnormal use if such use would engender a risk. In other cases the instructions must draw the user's attention to ways which experience has shown	These requirements have been complied with, and the related information also has been provided within the instruction manual.	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	might occur – in which the machinery should not be used.		
d)	Under the intended conditions of use, the discomfort, fatigue and psychological stress faced by the operator must be reduced to the minimum possible taking ergonomic principles into account.	These requirements have been taken into account during the design of this machine.	Pass
e)	When designing and constructing machinery, the manufacturer must taken account of the constraints to which the operator is subject as a result of the necessary or foreseeable use of personal protection equipment.	Not applicable.	N/A
f)	Machinery must be supplied with all the essential special equipment and accessories to enable it to be adjusted, maintained and used without risk.	These related accessories have been supplied.	Pass
1.1.3	Materials and products	–	–
	The materials used to construct machinery or products used and created during its use must not endanger exposed persons' safety or health	Materials and products cannot endanger exposed person's safety or health.	Pass
	In particular, where fluids are used, machinery must be designed and constructed for use without risks due to filling, use, recovery or draining.	It has been complied with.	Pass
1.1.4	Lighting	–	–
	The manufacturer must supply integral lighting suitable for the operations concerned where its lack is likely to cause a risk despite ambient lighting of normal intensity.	No integral lighting has been used.	N/A
	The manufacturer must ensure that there is no area of shadow likely to cause nuisance, that there is no irritating dazzle and that there are no dangerous stroboscopic effects due to the lighting provided by the manufacturer.	No integral lighting has been used.	N/A
	Internal parts requiring frequent inspection, and adjustment and maintenance areas, must be provided with appropriate lighting.	No integral lighting has been used.	N/A
1.1.5	Design of machinery to facilitate its	–	–
Clause	Requirement – test EN ISO 12100:2010	Result	Verdict

	handling		
	Machinery or each component part thereof must:	–	–
	– Be capable of being handle safely	All of them are capable of being handled safely.	Pass
	– be packaged or designed so that it can be stored safely and without damage	This clause has been met.	Pass
	Where the weight, size or shape of machinery or its various component parts prevents them from being moved by hand, the machinery or each components part must:	–	–
	– Either be fitted with attachments for lifting gear, or	Not applicable.	N/A
	– Be designed so that it can be fitted with such attachments, or	Not applicable.	N/A
	– Be shaped in such a way that standard lifting gear can easily be attached	It has been complied with.	Pass
	Where machinery or one of its component parts is to be moved by hand, it must:	–	–
	– Either be easily movable, or	Not applicable.	N/A
	– Be equipped for picking up and moving in complete safety	Not applicable.	N/A
	Special arrangement must be made for the handling of tools and/or machinery parts, even if lightweight, which could be dangerous.	No this kind of situation.	N/A
1.2	Controls	–	–
1.2.1	Safety and reliability of control systems	–	–
	Control systems must be designed and constructed so that they are safe and reliable, in a way that will prevent a dangerous situation arising.	All related safe and reliable technologies have been used adequately for these machines.	Pass
	Above all they must be designed and constructed:	–	–
	– They can withstand the rigors of normal use and external factors	The whole control system can withstand the rigors of normal use and external factors.	Pass
	– Errors in logic don't lead to dangerous situations	Errors in logic don't lead to dangerous situations.	Pass
1.2.2	Control devices	–	–
	Control devices must be:	–	–

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	– Clearly visible and identifiable and appropriately marked where necessary	It has been complied with.	Pass
	– Positioned for safe operation without hesitation or loss of time, and without ambiguity	Suitable position for each control device has been taken.	Pass
	– Designed so that the movement of the control is consistent with its effect	The movement of the control is consistent with its effect.	Pass
	– Located outside the danger zones, except for certain controls where necessary, such as emergency stop, console for training of robots	They are located outside the danger zones.	Pass
	– Positioned so that their operation can't cause additional risk	Suitable position for each control device has been taken.	Pass
	– Designed or protected so that the desired effect, where a risk is involved, can't occur without an intentional operation.	This requirement has been complied with.	Pass
	– Made so as to withstand foreseeable strain, particular attention must be paid to emergency stop devices liable to be subjected to considerable strain	All of them can withstand foreseeable strain.	Pass
	Where a control is designed and constructed to perform several different actions, namely where there is no one–to–one correspondence, the action to be performed must be clearly displayed and subject to confirmation where necessary.	No this situation.	N/A
	Controls must be so arranged that their layout, travel and resistance to operation are compatible with the action to be performed, taking account of ergonomic principles	All control devices have been arranged adequately and taking account of ergonomic principles.	Pass
	Constraints due to the necessary foreseeable use of personal protection equipment must be taken into account	This kind of situation doesn't exist.	Pass
	Machinery must be fitted with indicators as required for safe operation	These machines are fitted with indicators for safe operation.	Pass
	The operator must be able to read them from the control position	They can be read from the control position.	Pass
	From the main control position the operator must be able to ensure that there are no exposed persons in the danger zones	This requirement has been complied with.	Pass
Clause	Requirement – test EN ISO 12100:2010	Result	Verdict

	If this is impossible, the control system must be designed and constructed so that an acoustic and/or visual warning signal is given whenever the machinery is about to start	This requirement has been complied with.	Pass
	The exposed person must have the time and the means to take rapid action to prevent the machinery starting up	Emergency stop switch can be used to prevent the machine starting up.	Pass
1.2.3	Starting	–	–
	It must be possible to start machinery only by voluntary actuation of a control provided for the purpose	These machines shall be started only by voluntary actuation of a control.	Pass
	The same requirement applies:	–	–
	– When restarting the machinery after stoppage, whatever the cause	The same requirement is applied.	Pass
	– When effecting a significant change in the operating conditions	The same requirement is applied.	Pass
	Unless such restarting or change in operating conditions is without risk to exposed persons	–	–
	This essential requirement doesn't apply to the restarting of the machinery or to the change in operating conditions resulting from the normal sequence of an automatic cycle	Not applicable.	N/A
	Where machinery has several starting controls and the operators can therefore put each other in danger, additional devices must be fitted to rule out such risks	Not applicable.	N/A
	It must be possible for automated plant functioning in automatic mode to be restarted easily after a stoppage once the safety conditions have been fulfilled	Not applicable.	N/A
1.2.4	Stopping device	–	–
	Normal stopping	–	–
	Each machine must be fitted with a control whereby the machine can be brought safely to a complete stop	The normal stopping devices have been used for these machines.	Pass
	Each workstation must be fitted with a control to stop some or all of the moving parts of the machinery, depending on the	Workstation has fitted with a normal stopping device.	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	type of hazard, so that the machinery is rendered safe		
	The machinery's stop control must have priority over the start controls	They have priority over the start controls.	Pass
	Once the machinery or its dangerous parts have stopped, the energy supply to the actuators concerned must be cut off	The energy supply has been cut off after the machine is stopped.	Pass
	Emergency stop	–	–
	Each machinery must be fitted with one or more emergency stop devices to enable actual or impending danger to be averted	The machine has been fitted with emergency stops.	Pass
	The following exceptions apply:	–	–
	– Machines in which an emergency stop device would not lessen the risk, either because it would not reduce the stopping time or because it would not enable the special measures required to deal with the risk to be taken	Not applicable.	N/A
	– Hand-held portable machines and hand-guided machines	Not applicable.	N/A
	The emergency stop device must:	–	–
	– Have clearly identifiable, clearly visible and quickly accessible controls	It has been complied with.	Pass
	– Stop the dangerous process as quickly as possible, without creating additional hazards	It has been complied with.	Pass
	– Where necessary, trigger or permit the triggering of certain safeguard movements	No this kind of application	N/A
	Once active operation of the emergency stop control has ceased following a stop command, that command must be sustained by engagement of the emergency stop device until that engagement is specifically overridden	Not applicable.	N/A
	It must be possible to disengage the device only by an appropriate operation, and disengaging the device must not restart the machinery but only permit restarting	It has been complied with.	Pass
	Complex installations	–	–
	In the case of machinery or parts of machinery designed to work together,	Not applicable.	N/A

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	must so design and construct the machinery that the stop controls, including the emergency stop, can stop not only the machinery itself but also all equipment upstream and/or downstream if its continued operation can be dangerous		
1.2.5	Mode selection	–	–
	The control mode selected must override all other control systems with the exception of the emergency stop	The control mode of selection can override all other control systems with the exception of the emergency stop.	Pass
	If machinery has been designed and built to allow for its use in several control or operating modes presenting different safety levels, it must be fitted with a mode selector which can be locked in each position	It has been complied with.	Pass
	Each position of the selector must correspond to a single operating or control mode	Each of them is corresponding to a single operating or control mode.	Pass
	The selector may be replaced by another selection method which restricts the use of certain functions of the machinery to certain categories of operator	No this kind of application.	N/A
	If, for certain operations, the machinery must be able to operate with its protection devices neutralized, the mode selector must simultaneously:	No this kind of application.	N/A
	– Disable the automatic control mode	Not applicable.	N/A
	– Permit movements only by controls requiring sustained action	Not applicable.	N/A
	– Permit the operation of dangerous moving parts only in enhanced safety conditions while preventing hazards from linked sequences	Not applicable.	N/A
	– Prevent any movement liable to pose a danger by acting voluntarily or involuntarily on the machine's internal sensors	Not applicable.	N/A
	In addition, the operator must be able to control operation of the parts he is working on at the adjustment point.	Not applicable.	N/A
1.2.6	Failure of the power supply	–	–
	The interruption, re-establishment after an	No risk is generated from these	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	interruption or fluctuation in whatever manner of the power supply to the machinery must not lead to a dangerous situation	accidental situations.	
	In particular:	–	–
	– The machinery must not start unexpectedly	It doesn't start unexpectedly.	Pass
	– The machinery must not be prevented from stopping if the command has already been given	This requirement has been complied with.	Pass
	– No moving part of the machinery or piece held by the machinery must fall or be ejected	No part will fall or be ejected.	Pass
	– Automatic or manual stopping of the moving parts whatever they must be unimpeded	This requirement has been complied with.	Pass
	– The protection devices must remain fully effective	All protection devices can remain effective fully.	Pass
1.2.7	Failure of the control circuit	–	–
	A fault in the control circuit, or failure of or damage to the control circuit must not lead to dangerous situations	The failure of the control circuit will not lead to dangerous situations.	Pass
	In particular:	–	–
	– The machinery must not start unexpectedly	It doesn't start unexpectedly.	Pass
	– The machinery must not be prevented from stopping if the command has already been given	This requirement has been complied with.	Pass
	– No moving part of the machinery or piece held by the machinery must fall or be ejected	No part will fall or be ejected.	Pass
	– Automatic or manual stopping of the moving parts whatever they may be must be unimpeded	This requirement has been complied with.	Pass
	– The protection device must remain fully effective	All of protection devices can remain effective fully.	Pass
1.2.8	Software	–	–
	Interactive software between the operator and the command or control system of a machine must be user-friendly	This requirement has been complied with.	Pass
1.3	Protection against mechanical hazards	–	–
1.3.1	Stability	–	–

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	Machinery, components and fittings thereof must be so designed and constructed that they are stable enough, under the foreseen operating conditions for use without risk of overturning, falling or unexpected movement	The stability of machines, components and fittings has been taken into consideration.	Pass
	If the shape of the machinery itself or its intended installation doesn't offer sufficient stability, appropriate means of anchorage must be incorporated and indicated in the instructions	Not applicable.	N/A
1.3.2	Risk of break-up during operation	–	–
	The various parts of machinery and their linkages must be able to withstand the stress to which they are subject when used as foreseen by the manufacturer	All parts used can withstand sufficient stress for working.	Pass
	The durability of the materials used must be adequate for the nature of the workplace foreseen by the manufacturer, in particular as regards the phenomena of fatigue, aging, corrosion and abrasion	All materials used have adequate durability.	Pass
	The manufacturer must indicate in the instructions the type and frequency of inspection and maintenance required for safety reasons, where appropriate, indicate the parts subject to wear and the criteria for replacement	This information in relation to inspection and maintenance etc. are indicated in the instruction manual.	Pass
	Where a risk of rupture or disintegration remains despite the measures taken the moving parts must be mounted and positioned in such a way that in case of rupture their fragments will be contained	No this kind of situation.	N/A
	Both rigid and flexible pipes carrying fluids, particularly those under high pressure, must be able to withstand the foreseen internal and external stresses and must be firmly attached and/or protected against all manner of external stresses and strains; precaution must be taken to ensure that no risk is posed by a rupture	This requirement has been complied with.	Pass
	Where the material to be processed is fed to the tool automatically, the following conditions must be fulfilled to avoid risks	–	–

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	to the persons exposed:		
	– When the work piece comes into contact with the tool the later must have attained its normal working conditions	This requirement has been complied with.	Pass
	– When the tool starts and/or stops the feed movement and the tool movement must be coordinated	This requirement has been complied with.	Pass
1.3.3	Risks due to falling or ejected objects	–	–
	Precautions must be taken to prevent risks from falling or ejected objects	This requirement has been complied with.	Pass
1.3.4	Risks due to surfaces, edges or angles	–	–
	In so far as their purpose allows, accessible parts of the machinery must have no sharp edges, no sharp angles, and no rough surfaces likely to cause injury	This requirement has been complied with.	Pass
1.3.5	Risks related to combined machinery	–	–
	Where the machinery is intended to carry out several different operations with the manual removal of the piece between each operation, it must be designed and constructed in such a way as to enable each element to be used separately without the other elements constituting a danger or risk for the exposed person	No risk is generated from that situation for the exposed person.	Pass
	For this purpose, it must be possible to start and stop separately and elements that are not protected	No this situation.	N/A
1.3.6	Risks relating to variations in the rotational speed of tools	–	–
	When the machine is designed to perform operations under different conditions of use, it must be designed and constructed in such a way that selection and adjustment of these conditions can be carried out safely and reliably	This requirement has been complied with.	Pass
1.3.7	Prevention of risks related to moving parts	–	–
	The moving parts of machinery must be designed, built and laid out to avoid hazards or, where hazards persist, fixed with guards or protective devices in such a way as to prevent all risk of contact which could lead to accidents	The moving parts is working without hazards persist.	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	All necessary steps must be taken to prevent accidental blockage of moving parts involved in the work	This requirement has been complied with.	Pass
	In cases where, despite the precautions taken, a blockage is likely to occur, specific protection devices or tools, the instruction handbook and possibly a sign on the machinery should be provided by the manufacturer to enable the equipment to be safely unblocked	No this kind of risk situation.	N/A
1.3.8	Choice of protection against risks related to moving parts	–	–
	Guards or protection devices used to protect against the risks related to moving parts must be selected on the basis of the type of risk	Guards or protection devices have been used appropriately.	Pass
	The following guidelines must be used to help make the choice	–	–
	A. Moving transmission parts Guards designed to protect exposed persons against the risks associated with moving transmission parts must be:	–	–
	– Either fixed, complying with requirements 1.4.1 and 1.4.2.1 or	The appropriate protection devices are used.	Pass
	– Movable, complying with requirements 1.4.1 and 1.4.2.2.A	The appropriate protection devices are used.	Pass
	B. Moving parts directly involved in the process guards or protection devices designed to protect exposed persons against the risks associated with moving parts contributing to the work must be:	–	–
	– Wherever possible fixed guards complying with requirements 1.4.1 and 1.4.2.1	The appropriate protection devices are used.	Pass
	– Otherwise, movable guards complying with requirements 1.4.1 and 1.4.2.2.B or protection devices such as sensing devices, remote-hold protection devices, or protection devices intended automatically to prevent all or part of the operator's body from encroaching to the danger zone in accordance with requirements 1.4.1 and 1.4.3	The appropriate protection devices are used.	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	However, when certain moving parts directly involved in the process can't be made completely or partially inaccessible during operation owing to operations requiring near-by operator intervention, where technically possible such parts must be fitted with:	–	–
	– Fixed guards, complying with requirements 1.4.1 and 1.4.2.1 preventing access to those sections of the parts that are not used in the work	The appropriate protection devices are used.	Pass
	– Adjustable guards, complying with requirements 1.4.1 and 1.4.2.3 restricting access to those sections of the moving parts that are strictly for the work	Not applicable.	N/A
1.4	Required characteristics of guards and protection devices	–	–
1.4.1	General requirement	–	–
	Guards and protection devices must:	–	–
	– Be of robust construction	They are of robust construction.	Pass
	– Not give rise to any additional risk	No additional risk is generated.	Pass
	– Not be easy to bypass or render non-operational	They cannot be easy to bypass or render non-operational.	Pass
	– Be located at an adequate distance from the danger zone	Appropriate safety distances according to EN 294 has been complied with.	Pass
	– Cause minimum obstruction to the view of the production process	This requirement has been complied with.	Pass
	– Enable essential work to be carried out on installation and/or replacement of tools and also for maintenance by restricting access only to the area where the work has to be done, if possible without the guard or protection device having to be dismantled	These requirements have been taken into account during the design of the protection devices.	Pass
1.4.2	Special requirements for guards	–	–
1.4.2.1	Fixed guards	–	–
	Fixed guard must be securely held in place	This requirement has been complied with.	Pass
	They must be fixed by system that can be opened only with tools	This requirement has been complied with.	Pass
	Where possible, guards must be unable to	This requirement has been complied	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	remain in place without their fixings	with.	
1.4.2.2	Movable guards	–	–
	A. Type A movable guards must:	–	–
	– As far as possible remain fixed to the machinery when open	Not applicable.	N/A
	– Be associated with a locking device to prevent moving parts starting up as long as these parts can be accessed and to give a stop command whenever they are no longer closed	This requirement has been complied with.	Pass
	B. Type B movable guards must be designed and incorporated into the control system so that	–	–
	– Moving parts can't start up while they are within the operator's reach	This requirement has been complied with.	Pass
	– The exposed person can't reach moving parts once they have started up	Not applicable.	N/A
	– They can be adjusted only by means of an intentional action, such as the use of a tool, etc.	Not applicable.	N/A
	– The absence or failure of one of their components prevents starting or stops the moving parts	Not applicable.	N/A
	– Protection against any risk of ejection is provided by means of an appropriate barrier	Not applicable.	N/A
1.4.2.3	Adjustable guards restricting access	–	–
	Adjustable guards restricting access to those areas of the moving parts strictly necessary for the work must:	–	–
	– Be adjustable manually or automatically according to the type of work involved	Not applicable.	N/A
	– Be readily adjustable without the use of tools	Not applicable.	N/A
	– Reduce as far as possible the risk of ejection	Not applicable.	N/A
1.4.3	Special requirements for protection devices	–	–
	Protection devices must be designed and incorporated into the control system so that:	–	–
	– Moving parts can't start up while they	This requirement has been	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	are within the operator's reach	complied.	
	– The exposed person can't reach moving parts once they have started up	This requirement has been complied.	Pass
	– They can be adjusted only by means of an intentional action, such as the use of a tool, etc.	This requirement has been complied.	Pass
	– The absence or failure of one of their components prevents starting or stops the moving parts	This requirement has been complied.	Pass
1.5	Protection against other hazards	–	–
1.5.1	Electricity supply	–	–
	Where machinery has an electricity supply it must be designed, constructed and equipped so that all hazards of an electrical nature are or can be prevented	Appropriate protections have been taken.	Pass
	The specific rules in force relating to electrical equipment designed for use within certain voltage limits must apply to machinery which is subject to those limits	This requirement has been complied.	Pass
1.5.2	Static electricity	–	–
	Machinery must be so designed and constructed as to prevent or limit the build-up of potentially dangerous electrostatic charges and/or be fitted with a discharging system	Adequate safety design for this requirement has been taken.	Pass
1.5.3	Energy supply other than electricity	–	–
	Where machinery is powered by an energy other than electricity, it must be so designed, constructed and equipped as to avoid all potential hazards associated with these types of energy	Not applicable.	N/A
1.5.4	Errors of fitting	–	–
	Errors likely to be made when fitting or refitting certain parts which could be a source of risk must be made impossible by the design of such parts or, failing this, by information on moving parts and/or their housings where the direction of movement must be known to avoid a risk	Fitting should be taken by technicians.	Pass
	Any further information that may be necessary must be given in the instructions	Adequate instructions are given in the instruction manual.	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	Where a faulty connection can be the source of risk, incorrect fluid connections, including electrical conductors, must be made impossible by the design or, failing this, by information given on the pipes, cables, etc. and/or connectors blocks	The relative safety technologies have been taken and sufficient information has been given.	Pass
1.5.5	Extreme temperatures	–	–
	Step must be taken to eliminate any risk of injury caused by contact with or proximity to machinery parts or materials at high or very low temperatures	Adequate safety mark for this requirement has been taken.	Pass
	The risk of hot or very cold materials being ejected should be assessed where this risk exists, the necessary steps must be taken to prevent it or, if this is not technically possible, to render it non-dangerous	Adequate safety design for hot materials ejection has been taken.	Pass
1.5.6	Fire	–	–
	Machinery must be designed and constructed to avoid all risk of fire or overheating posed by the machinery itself or by gases, liquids, dusts, vapors or the other substances produced or used by the machinery	This kind of situation doesn't exist.	N/A
1.5.7	Explosion	–	–
	Machinery must be designed and constructed to avoid any risk of explosion posed by the machinery itself or by gases, liquids, dusts, vapors or other substances produced or used by the machinery	No explosion risk is generated.	N/A
	To that end the manufacturer must take steps to:	–	–
	– Avoid a dangerous concentration of products	Not applicable.	N/A
	– Prevent combustion of the potentially explosive atmosphere	Not applicable.	N/A
	– Minimize any explosion which may occur so that it doesn't endanger the surroundings	Not applicable.	N/A
	The same precautions must be taken if the manufacturer foresees the use of the machinery in potentially explosive atmosphere	Not applicable.	N/A
	Electrical equipment forming part of the	Not applicable.	N/A

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	machinery must conform, as far as the risk from explosion is concerned, to the provision of the specific Directive in force		
1.5.8	Noise	–	–
	Machinery must be so designed and constructed that risks resulting from the emission of airborne noise are reduced to the lowest level taking accounting of technical progress and the availability of means of reducing noise, in particular at source	Appropriate measure has been taken.	Pass
1.5.9	Vibration	–	–
	Machinery must be so designed and constructed that risks resulting from vibrations produced by the machinery are reduced to the lowest level, taking account of technical progress and the availability of means of reducing vibration, in particular at source	Appropriate design and construction have been taken.	Pass
1.5.10	Radiation	–	–
	Machinery must be so designed and constructed that any emission of radiation is limited to the extent necessary for its operation and that the effects on exposed persons are non-existent or reduced to non-dangerous proportions	No harmful emission of radiation has been found.	N/A
1.5.11	External radiation	–	–
	Machinery must be so designed and constructed that external radiation doesn't interfere with its operation	Appropriate EMC protection measure has been taken.	Pass
1.5.12	Laser equipment	–	–
	Where laser equipment is used, the following provisions should be taken into account;	No laser equipment is used.	N/A
	- Laser equipment on machinery must be designed and constructed so as to prevent any accidental radiation	No laser equipment is used.	N/A
	- Laser equipment on machinery must be protected so that effective radiation, radiation produced by reflection or diffusion and secondary radiation don't damage health	No laser equipment is used.	N/A
	- Optical equipment for the observation or	No laser equipment is used.	N/A

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	adjustment of laser equipment on machinery must be such that no health risk is created by the laser rays		
1.5.13	Emission of dust, gases, etc.	–	–
	Machinery must be so designed, constructed and/or equipped that risks due to gases, liquids, dust, vapors and other waste materials which it produces can be avoided	It has been complied with.	Pass
	Where a hazard exists, the machinery must be so equipped that the said substances can be contained and/or evacuated	No this kind of hazard exists.	N/A
	Where machinery is not enclosed during normal operation, the devices for containment and/or evacuation must be situated as close as possible to the source emission	Not applicable.	N/A
1.5.14	Risk of being trapped in a machine	–	–
	Machinery must be so designed, constructed or fitted with a means of preventing a exposed person from being enclosed within it or, if that is impossible, with a means of summoning held	This kind of situation doesn't exist.	N/A
1.5.15	Risk of slipping, tripping or falling	–	–
	Parts of the machinery where persons are liable to move about or stand must be designed and constructed to prevent persons slipping, tripping or falling on or off these parts	No slipping, tripping or falling risk has been found.	N/A
1.6	Maintenance	–	–
1.6.1	Machinery maintenance	–	–
	Adjustment, lubrication and maintenance points must be located outside danger zones	One adjustment points with movable guard should be operated by a specified people, and must be stopped before open the door. Appropriate means have been given in the instruction manual.	N/A
	It must be possible to carry out adjustment, maintenance, repair, cleaning and servicing operations while machinery is at a standstill	These jobs can be carried out while the machine is at a standstill.	Pass
	If one or more of the above conditions	Not applicable.	N/A

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	can't be satisfied for technical reasons, these operations must be possible without risk		
	In the case of automated machinery and, where necessary, other machinery, the manufacturer must take provision for a connecting device for mounting diagnostic fault-finding equipment	This kind of situation doesn't exist.	N/A
	Automated machine components which have to be changed frequently, in particular for a change in manufacture or where they are liable to wear or likely to deteriorate following an accident, must be capable of being removed and replaced easily and in safety	The relative components can be removed and replaced easily and in safety.	Pass
	Access to the components must enable these tasks to be carried out with the necessary technical means in accordance with an operating method specified by the manufacturer	Appropriate means have been given in the instruction manual.	Pass
1.6.2	Access to operating position and servicing points	–	–
	The manufacturer must provide means of access to allow access in safety to all areas used for production, adjustment and maintenance operations	Appropriate protection measures have been taken so that all areas can be accessed safely.	Pass
1.6.3	Isolation of energy sources	–	–
	All machinery must be fitted with means to isolate it from all energy sources	Suitable insulating devices are used.	Pass
	Such isolators must be clearly identified	They are identified clearly.	Pass
	They must be capable of being locked if reconnection could endanger exposed persons	Not applicable.	N/A
	In the case of machinery supplied with electricity through a plug capable of being plugged into a circuit, separation of the plug is sufficient	The clause has been met.	Pass
	The isolator must be capable of being locked also where an operator is unable, from any of the points to which he has access, to check that the energy is still cut off	Not applicable.	N/A
	After the energy is cut off, it must be	This requirement has been complied	Pass
Clause	Requirement – test EN ISO 12100:2010	Result	Verdict

	possible to dissipate normally any energy remaining or stored in the circuits of the machinery without risk to exposed persons	with.	
	As an exception to the above requirements, certain circuits may remain connected to their energy source in order, for example, to hold parts, protect information, light interiors, etc. In this case, special steps must be taken to ensure operator safety	This kind of situation doesn't exist.	N/A
1.6.4	Operator intervention	–	–
	Machinery must be so designed, constructed and equipped that the need for operator intervention is limited	The operator intervention has been limited.	Pass
	If operator intervention can't be avoided, it must be possible to carry it out easily and in safety	No this kind of situation.	N/A
1.6.5	Cleaning of internal parts	–	–
	The machinery must be designed and constructed in such a way that it is possible to clean internal parts which have contained dangerous substances or preparations without entering them; any necessary unblocking must also be possible from the outside	The clause has been met.	Pass
	If it is absolutely impossible to avoid entering the machinery, the manufacturer must take steps during its construction to allow cleaning to take place with the minimum of danger	The clause has been met.	Pass
1.7	Indicators	–	–
1.7.1	Information devices	–	–
	The information needed to control machinery must be unambiguous and easily understood	Be unambiguous and easily understood.	Pass
	It must not be excessive to the extent of overloading the operator	No this situation is found.	Pass
	Where the health and safety of exposed persons may be endangered by a fault in the operation of unsupervised machinery, the machinery must be equipped to give an appropriate acoustic or light signal as a warning	Not applicable.	N/A

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
1.7.2	Warning devices	–	–
	Where machinery is equipped with warning devices, these must be unambiguous and easily perceived	This requirement has been complied with.	Pass
	The operator must have facilities to check the operation of such warning devices at all times	This requirement has been complied with.	Pass
	The requirements of the specific directives concerning colors and safety signals must be complied with	This requirement has been complied with.	Pass
1.7.3	Warning of residual risks	–	–
	Where risks remain despite all the measures adopted or in the case of potential risks which are not evident, the manufacturer must provide warnings	Appropriate warning has been taken.	Pass
	Such warnings should preferably use readily understandable pictograms and/or be drawn up in one of the languages of the country in which the machinery is to be used, accompanied, on request, by the languages understood by the operators	They can be understood readily.	Pass
1.7.4	Marking	–	–
	All machinery must be marked legibly and indelibly with the following minimum particular:	–	–
	– Name and address of the manufacturer	It has been marked.	Pass
	– CE mark, which includes the year of construction	It has been marked.	Pass
	– Designation of series or type	It has been marked.	Pass
	– Serial number, if any	It has been marked.	Pass
	Furthermore, where the manufacturer constructs machinery intended for use in a potentially explosive atmosphere, this must be indicated on the machinery	Not applicable.	N/A
	Machinery must also bear full information relevant to its type and essential to its safe use	This information has been provided.	Pass
	Where a machine part must be handled during use with lifting equipment, its mass must be indicated legibly, indelibly and unambiguously	This information has been provided.	Pass
	The interchangeable equipment referred to	No this situation.	N/A

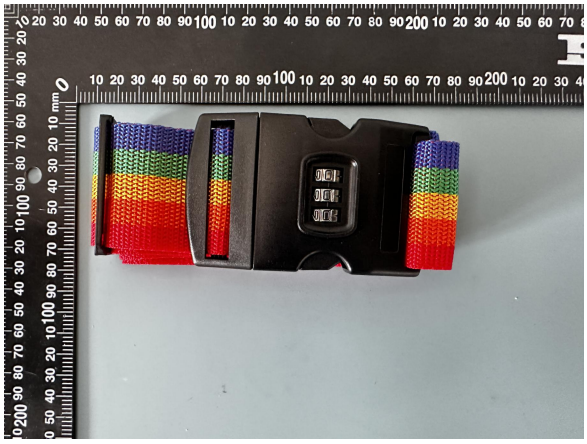
Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	in article 1 (2), third subparagraph, must bear the same information		
1.7.5	Instructions	–	–
	a) All machinery must be accompanied by instructions including at least the following:	–	–
	– A repeat of the information with which the machinery is marked, except the serial number, together with any appropriate additional information to facilitate maintenance	It has been included in the instructions.	Pass
	– Foreseen use of the machinery within the meaning of 1.1.2 (c)	It has been included in the instructions.	Pass
	– Workstation(s) likely to be occupied by operators	It has been included in the instructions.	Pass
	– Instructions for safe	It has been included in the instructions.	Pass
	– Putting into service	It has been included in the instructions.	Pass
	– Use	It has been included in the instructions.	Pass
	– Handling, giving the mass of the machinery and its various parts where they are regularly to be transported separately	It has been included in the instructions.	Pass
	– Installation	It has been included in the instructions.	Pass
	– Assembling, dismantling	It has been included in the instructions.	Pass
	– Adjustment	It has been included in the instructions.	Pass
	– Maintenance (servicing and repair)	It has been included in the instructions.	Pass
	– Where necessary, training instructions	Not applicable.	N/A
	– Where necessary, the essential characteristics of tools which may be fitted to the machinery	Not applicable.	N/A
	Where necessary, the instructions should draw attention to ways in which the machinery should not be used	It has been included in the instructions.	Pass
	b) The instructions must be drawn up in one of the community languages by the manufacturer or his authorized	In English.	Pass

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	representative established in the community		
	On being put into service, all machinery must be accompanied by a translation of the instructions in the language or languages of the country in which the machinery is to be used and by the instructions in the original language	It has been complied with.	Pass
	This translation must be done either by the manufacturer or his authorized representative established in the Community or by the person introducing the machinery into the language area in question	It has been complied with.	Pass
	By way of derogation from this requirement, the maintenance instructions for use by the specialized personnel employed by the manufacturer or his authorized representative established in the community may be drawn up in only one of the community languages understood by that personnel	It has been complied with.	Pass
	c) The instructions must contain the drawing and diagrams necessary for putting into service, maintenance, inspection, checking of correct operation and, where appropriate, repair of the machinery and all useful instructions in particular with regard to safety	It has been complied with.	Pass
	d) Any literature describing the machinery must not contradict the instructions as regards safety aspects	It has been complied with.	Pass
	The technical documentation describing the machinery must give information regarding the airborne noise emission referred to in (f) and, in the case of hand-held and/or hand-guided machinery, information regarding vibrations as referred to in 2.2	It has been complied with.	Pass
	e) Where necessary, the instructions must give the requirements relating to installation and assembly for reducing noise or vibration	Not applicable.	N/A

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	f) The instructions must give the following information concerning airborne noise emission by the machinery, either the actual value or a value established on the basis of measurements made on identical machinery:	–	–
	– Equivalent continuous A-weighted pressure level at workstations, where this exceeds 70 dB (A); where this level doesn't exceed 70 dB (A), this fact must be indicated	See the instruction manual in detail	Pass
	– Peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 MPa)	Not applicable.	N/A
	– Sound power level emitted by the machinery where the equivalent continuous A-weight sound pressure level at workstations exceeds 85 dB (A)	Not applicable.	N/A
	In the case of very large machinery, instead of the sound power level, the equivalent continuous sound pressure levels at specified positions around the machinery may be indicated	Not applicable.	N/A
	Where the harmonized standards are not applied, sound levels must be measured using the most appropriate method for the machinery	The harmonized standards are applied.	Pass
	The manufacturer must indicate the operating conditions of the machinery during measurement and what methods have been used for the measurement	See the instruction manual in detail.	Pass
	Where the workstation(s) are undefined or can't be defined, sound pressure levels must be measured at a distance of 1 meter from the surface of the machinery and at a height of 1.60 meters from the floor or access platform	The workstation(s) are defined.	Pass
	The position and value of the maximum sound pressure must be indicated	See the instruction manual in details.	Pass
	g) If the manufacturer foresees that the machinery will be used in a potentially explosive atmosphere, the instructions	The machine will not be used in a potentially explosive atmosphere.	N/A

Clause	Requirement – test EN ISO 12100:2010	Result	Verdict
	must give all the necessary information		
	h) In the case of machinery which may also be intended for use by non-professional operators, the wording and layout of the instructions for use, whilst respecting the other essential requirements mentioned above, must take into account the level of general education and acumen that can reasonably be expected from such operators	It has been complied with.	Pass
2	Essential health and safety requirements for certain categories of machinery	–	–
3	Essential health and safety requirements to offset the particular hazards due to the mobility machinery	–	–
4	Essential health and safety requirements to offset the particular hazards due to a lifting operation	–	–
5	Essential health and safety requirements for machinery intended for underground work	–	–
6	Essential health and safety requirements to offset the particular hazards due to the lifting or moving of persons	–	–

Safety Pictures



TCF No.: QA2023010301MD

EC DECLARATION OF CONFORMITY

According to the following EC Directives,

Machinery Directive: 2006/42/EC

The undersigned, __, representing

Yiwu Changhao Locks Co., Ltd

No.18, Chengdiannan Road, Choujiang District, Yiwu.Zhejiang, 322000, ChinaImpact wrench

Type:

Model list

Key storage box series:

CH-801 CH-802 CH-803 CH-805 CH-806 CH-807 CH-808 CH-818 CH-807-L CH-807-2 CH-807-3 CH-866 CH-809 CH-910 CH-911 CH-822 CH-817 CH-827 CH-817P CH-827P CH-837 CH-847 CH-886 CH-861 CH-930

17B series:

CH-17B CH-17C CH-17D CH-17E CH-17B-L CH-17C-L

Gym padlock series:

CH-603 CH-604 CH-604-L CH-605 CH-606 CH-607 CH-608 CH-609

CH-610 CH-611 CH-613 CH-615 CH-617 CH-618

Travel lock series:

CH-19H CH-13H CH-603-2 CH-24H CH-016A CH-017A CH-17H CH- 14H CH-15H CH-16H

CH-606-1 CH-606-2 CH-015A CH-008H CH-600 CH-601 CH-602 CH-601-L CH-602-L

TSA padlock series:

TSA532 TSA558 TSA541 TSA561 TSA-551 TSA-552 TSA-553 TSA-554 TSA-330 TSA-309 TSA-527 TSA-719 TSA-385 TSA-386 TSA-122 TSA-338 TSA-335 TSA-331 TSA-301 TSA-302 TSA-21105 TSA-526 TSA-528 TSA-13219 TSA-12022 TSA-616 TSA-20988 TSA-21100 TSA-13226 TSA16163

TSA case lock: TSA-050 TSA-052 TSA-054 TSA-055

Steel wire series:

CH-20A CH-21B CH-835 CH-28A CH-839 CH-31 CH-32S CH-33 CH-35 CH-017L CH-017L

CH-001 CH-015 CH-016 CH-138 CH-027

Cartoon lock series:

CH-02B CH-10B CH-13A CH-13B CH-14A CH-14B CH-15B CH-19B CH-05B CH-07A CH-25B CH-28B CH-20B CH-09B CH-07B CH-07D CH-07C CH-11B CH-08A CH-02A

Brass lock series:

CH-04B CH-04K CH-04E CH-04F CH-04H CH-04W CH-04Y CH-04Z CH-CX02 CH-CX03 CH-CX04

Other series:

CH-7182 CH-7183 CH-7184 CH-701 CH-715B CH-710B CH-707C CH-707A CH-707A-5 CH-713B CH-719B CH-715B-3 CH-719B-2 CH-30 CH-715B-2 CH-707A-2 CH-713B-2 CH-707A-3

Aluminum alloy lock series:

CH-03B CH-03K CH-03E CH-03F CH-03W CH-06B CH-06K CH-06E CH-06F CH-06W

Bike lock:

CH-202 CH-202T CH-203 CH-203S CH-108 CH-109 CH-5018 CH-5016 CH-402 CH-406 CH-501 CH-506

Other series: CH-22B CH-22D CH-22C CH-901 CH-902 CH-K04, CH-Bear CH-HB30 CH-36 CH-37 CH-40

Luggage tag， Small chain

lanyard series: TSA-319, TSA-319-2,CH-18C, CH-18A, CH-18D, CH-18E CH-18A-2

lanyard series: Provided that it is used and maintained in accordance with the general accepted codes of good practice and the recommendations of the instructions manual, meet the essential safety and health requirements of the Machinery Directive and Low Voltage Directive. For the most specific risks of this machine, safety and compliance with the essential requirements of the Directive has been based on elements of :

EN ISO 12100: 2010	**Safety of machinery — GenerSafety of machinery — General principles for design — Risk assessment and risk reductional principles for design — Risk assessment and risk reduction**

The technical files are compiled by:

Date: 2023-09-21

Signature:_____

Qualification:_____

END OF TECHNICAL FILE