

Seite 2 von 38 Page 2 of 38

Produktbeschreibung Product description

Copy of rating plates:



General information and summary of testing:

The product is hand-held fastener driving tools powered by compressed air which intended for driving fasteners into wooden materials.

There are 12 models: F32, F32/9032, F32/9032III, F32/9032C, F50, F50/9040, F50/9040C, F50III, F50/9040III, XAGD50, XAGD50/9040 and R1251D included in this test report.

The mdoel differences are shown as below:

For models F32 and F32/9032, they are different for the magazine and the nailer used, the cylinder is the same For models F50 and F50III and F50/9040III all of them are the same except for the workpiece contact part, the magazine and the fasteners used, the cylinder is the same.

For models F50/9040 and F50/9040III all of them are the same except for the cylinder used.

For models XAGD50, and R1251D are the same as the models F50 III except for the model name For models XAGD50/9040 is the same as the models F50/9040 III except for the model name

After review, all tests were performed on models: F32/9032, F32/9032C, F32/9032III, F50, F50/9040, F50/9040III and F50/9040C. And construction check were performed on model F32, F32/9032, F32/9032III, F32/9032C, F50, F50/9040C, F50III and F50/9040III

Attachment 1: Test equipment list(1 page)

Prüfbericht-Nr.: Test Report No.: 50259302 001

Seite 3 von 38 Page 3 of 38





Prüfbericht-Nr.: *Test Report No.:* 50259302 001



Seite 4 von 38 Page 4 of 38



Prüfbericht-Nr.: Test Report No.: 50259302 001

Seite 5 von 38 Page 5 of 38



Prüfbericht-Nr.: Test Report No.: 50259302 001

Seite 6 von 38 Page 6 of 38





Prüfbericht-Nr.: 50259302 001 *Test Report No.:*

Seite 7 von 38 Page 7 of 38



Testing location:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd. 3F Building C13, R&D Park, No. 32, Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo, 315048, P. R. China
Testing Laboratory:	TÜV Rheinland / CCIC (Ningbo) Co., Ltd. 3F Building C13, R&D Park, No. 32, Lane 299 Guanghua Road, National Hi-Tech Zone, Ningbo, 315048, P. R. China



Seite 8 von 38

Prüfbericht-Nr.:	50259302 001
Test Report No.:	30233302 001

Test Report No.: 50259302 001		F	age 8 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

4	Safety requirements measures		Р
4.1	General		Р
	The machine shall comply with the following safety		Р
	requirements and/or protective measures and be		
	verified in accordance with <u>Clause 5</u> . In addition, the		
	machine shall be designed in accordance with the		
	principles of ISO 12100 for relevant, but not necessarily		
	significant, hazards, which are not dealt with by this		
	document.		
	The measures adopted to comply with the		Р
	requirements of <u>Clause 4 shall take account of the</u>		
	state of the art.		
	It is recognized that optimizing the design with respect		Р
	to some safety measures can result in a degradation of		
	performance against other safety requirements. In such		
	cases, it is required to strike a balance between the		
	various requirements in order to achieve a fastener		
	driving tool that satisfies each requirement, so far as is		
	reasonably practicable, and remains fit for purpose.		
4.2	Mechanical safety		Р
4.2.1	Protection against points and edges of fasteners	B	P
	Fastener driving tools shall be designed in such a way	Protected	Р
	as to prevent injuries caused by the projecting points or		
	edges of fasteners, for example by a protection cover.		
	Exceptions are permissible at the location of the nose if		
	there are technological reasons for such exceptions, for		
	example, on fastener driving tools designed for driving		
	rasteners through noies of punched metal sheets in		
400	Which the fastener points are used as a locator.		D
4.2.2	Prevention of unintended ejection of fasteners		
4.2.2.1	Prevention of unintended ejection of fasteners		P
	auring connection/disconnection of the energy		
10011	supply system		
4.2.2.1.1	Connection of the fastener driving tool to the energy		Р
	supply system shall not perform a driving operation by		
40010	Disconnection of the factoriar driving tool from the		Р
4.2.2.1.2	operav supply system shall make the tool incapable of		F
	a driving operation		
40010	Proumatic tools shall be designed to allow the fitting of		D
7.2.2.1.3	a nuick release counter		F
4222	Prevention of accidental trigger operation		P
-T.L.L.L	The design of fastener driving tools and the placement		P
	of the trigger shall be such as to provent unintentional		F
	oneration for example when the tool is placed on or		
	moved across a work surface		
4223	Prevention of slipping of fasteners from hard or		N/A
7.2.2.5	elinnary surfaces like steel and plastic		13/5
	Support Survices like steel and plastic		



Prüfbericht-Nr.: Test Report No.:Sold 2001Seite 9 von 3 Page 9 of 3			ite 9 von 38 Page 9 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	Tools, with workpiece contacts designed to normally push against hard surfaces like steel or concrete shall be designed in such a way, that the likelihood of the fastener to slip from the hard surface is reduced to a minimum. These tools shall be thus designed that they can only be operated if a force of 1,25 times of the tool weight including the weight of the fasteners but a minimum 50 N is applied to the workpiece contact.	The tool is not designed to be used against hard surface.	N/A
4.2.3 4.2.3.1	Prevention of free flight of fasteners Fastener driving tools shall be fitted with an extended workpiece contact or a retracted workpiece contact element. No driving operation shall be performed	Extended workpiece contact provided	P P
	before the workpiece contact is activated. The extended workpiece contact shall have a minimum 5 mm travel before a fastener can be driven. A workpiece contact is not required on light duty tools. NOTE The requirements for retracted workpiece contacts are given in <u>4.2.4.2</u> .	6,0mm	
4.2.3.2	For tools, other than light-duty tools, it might not be practical to meet the requirements of $4.2.3.1$ and for those tools, a workpiece contact is not required, provided the requirements of $4.2.3.3$, $4.2.3.4$ or $4.2.3.5$ are met.	Extended workpiece contact provided	N/A
4.2.3.3	Pinners driving fasteners up to 51 mm in length and a maximum 23 gauge (0,64 mm), where viewing/accurate placement is necessary shall operate by a dual activation device which only operates by two sequential dissimilar actions.		N/A
4.2.3.4	Special application tools such as carton closing staplers, sisal/bedding tools with fixed anvils, carton pliers.		N/A
4.2.3.5	The same degree of safety as provided by <u>4.2.3.1</u> can be demonstrated or is obtained with tools such as: hardwood flooring tools, multi-blow metal hardware nailers and palm nailers.		N/A
4.2.4	Design of the workpiece contact		Р
4.2.4.1	Extended workpiece contact		Р
	To minimize the possibility of a free flying fastener occurrence by accidentally touching the workpiece with the edge or corner of the workpiece contact, and therefore placing the nose outside the workpiece surface, or while being transported, the external dimensions of the workpiece contact (Figure 3) should		Ρ



Prüfbericht-Nr.: Test Report No.: 50259302 001		Seit Pa	e 10 von 38 age 10 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	 I = 18 mm for fastener driving tools with: contact actuation; continuous contact actuation; full sequential actuation using fasteners of a driving length of more than 130 mm, I = 30 mm for fastener driving tools with: single sequential actuation; full sequential actuation using fasteners of a driving length of 130 mm or below. 	Contact actuation Max. 7,0mm<18mm	Ρ
	It is important that the workpiece contact — is of a robust construction, — is securely held in place, — does not give rise to any additional hazard, and — is not easy to bypass or render non-operational, either intentionally or unintentionally.	Min.66N to active the bar link with the workpiece contact for all models	Ρ
4.2.4.2	Retracted workpiece contact		N/A
	A retracted workpiece contact shall either, only operate when a force equal to the mass as specified in <u>Table 1</u> , including maximum weight of fasteners is applied, or after the workpiece contact, makes contact with the workpiece. In all tool orientations, the workpiece contact shall reliably return to its starting position.		N/A
4.2.4.3	Intended resting position		Р
	Fastener driving tools and workpiece contact shall be designed in such a way that the workpiece contact does not operate the trigger system when the tool is set down in its intended resting position as specified by the manufacturer. Tools which, in their specified resting position, are also resting on their workpiece contact, shall comply with the test in 5.2.4.3.		P
4.2.5	Permitted trigger actuation modes		Р
4.2.5.1	Permitted actuation modes for fastener driving		Р
	tools that require extended or retracted workpiece contact (see Table 1)		



	F				<u> </u>
Absatz	EN ISO 11148-13:2018		Messergebnisse - Bemerkungen	Bewertung	
Clause	Anforderu	ngen – Prüfungen / Rec	quirements - Tests	Measuring results - Remarks	Evaluation
					5
	Maximum lengt of the fastence	Permitted actuation mode	Operating force for workpiece costact	I he tool is not designed to	Р
		artigle sequential actuation	The station of welfare	surface.	
	1.10% augu	statistic statist	100-76 of the real weights	contact actuation.	
		Interact actualion with automatic		The max. length of the	
	rist new.	full respective according	with his of the tool meights	fastener is 50 mm.	
		reader requests a frame		The tools can not operate	
		minitive artuation		when 60% of the tool weight	
		reversion		applied on the workpiece	
		automatic renefact actuation of the		contact.	
	· · · · · · · · · · · · · · · · · · ·	red fail mete		1	
	Table 1 ab	all mat analy to toolo w	a waa alluu alaa ta aa al ta		
	<u>I able I</u> sn	all not apply to tools n	formally designed to		
	concrete F	or these tools see 4.2.5	3		
		01 11000 10010, 000 <u>112.0</u>	<u></u> .		
	NOTE The	spring load on the work	piece contact can be		
	generated, for example, by metal springs, elastic				
1252	Actuation	compressed air operated	paris, elc.		D
7.2.3.2	application	and utility	<u>ble i </u> based oli		
	All tools, ex	cept for light-duty tools	and tools for	See above	Р
	production	applications such as he	avy-duty staplers or		
	bradders, a	bradders, and coil nailers shall be manufactured with			
	an actuation	n system meeting the re	quirements of single		
	sequential a	actuation, full sequential	actuation, selective		
	Tools that h	r contact actuation with a	automatic reversion.		
	or continual	contact actuation shall	be considered as		
	having cont	act actuation.			
	Tools manu	Ifactured with selective	actuation shall be	No such selective actuation	N/A
	shipped (pla	aced on the market) witl	n their actuation		
	system set	as single sequential act	uation, full		
	Sequential a	actuation, neutral, or off.	oro mov roquiro on		NI/A
	actuation s	stem different from the	t provided on the tool		N/A
	by the man	ufacturer, for purposes (of functionality and		
	utility. In su	ch cases, another actua	tion system may be		
	made availa	able and must comply w	ith <u>Table 1</u> . Means		
	for making	such other actuation sys	stems available		
	include, but	are not limited to, the for	ollowing:		
	- ACTUATION	a conversion option kit f	ri but not installed or		N/A
	manufactur	er The manufacturer et	nall supply all		
	relevant ins	tructions, warnings, and	Imarkings		
	applicable t	o that actuation system	as required in 6.1 to		
	6.3 along w	ith a directive that all rel	evant instructions,		
	warnings ar	nd markings shall remai	n permanently with		
	the tool and	I instruction handbook.			N 1/A
	- ACTUATION	n system is manufacture	eu and snipped as		N/A
		טטו. ווו ובפטטוופש וט מון ט	iuuiia		1



I			
Prüfbe Test Re	icht-Nr.: 50259302 001	Seit Pa	te 12 von 38 age 12 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
4.2.5.3	Permitted actuation modes of fastener driving tools designed to drive fasteners into hard surfaces like steel and concrete		N/A
	These tools are allowed with single or full sequential actuation only.		N/A
	Contact force to operate the tool shall be 1,25 times or more of the tool weight including the <u>maximum</u> weight of the fasteners but minimum 50 N.		N/A
4.2.5.4	Permitted actuation modes for fastener driving tools without workpiece contact		N/A
	— Single actuation — Continual actuation		N/A
4.2.6	Strength of the fastener driving tool		Р
4.2.6.1	Stress by compressed air for pneumatic tools		Р
	The pressurized section of pneumatic fastener driving tools shall be designed to withstand a minimum of $1,5 \times Ps$ max without any safety related failure.	For F32 series tested with 11,0bar, for F55 series tested with 11,8bar	Р
4.2.6.2	Stress by mechanical impact		Р
	The fastener driving tool shall be so designed and constructed such that its safety functions are not		Р
	compromised by rough handling or occasional dropping of the tool.		
4.2.7	Surfaces, edges and corners		Р
	External surfaces of fastener driving tools, except if otherwise specifically designed, shall not have sharp edges or abrasive surfaces. It is intended to follow the technical principles and specifications which are outlined in ISO 12100.		Р
4.2.8	Stability		Р
	Tools shall be so designed that they have a stable resting position on a horizontal, plane surface.		P
4.2.9	Tool construction		Р
	The tool shall be so designed and constructed such that its safety functions are not compromised by loosening or loss of components during use.		P
	Tools designed to work with air pressure up to 12 bar shall use hose fittings with right-hand thread.	Provided the right-hand thread hose fitting.	Р
	High pressure tools (above 12 bar) shall use hose fittings with left-hand thread.		N/A
4.1.10	Unintentional change of actuation mode		N/A
	Tools with a workpiece contact and having an actuation mode selector shall be designed and constructed so that changes of the actuation mode shall be intentional and shall be clearly identifiable and visible to the operator. This can be achieved by many methods, such as:		N/A
	a) two dissimilar actions being required to change modes, for example, buttons, sliding bars or levers.		N/A
	b) protect and position the actuation mode selector outside the surface area grasped by the operator.		N/A
	If the tool has an actuation mode selector, it shall be marked with the symbol <u>D.1</u> (see <u>Table D.1</u>).		N/A
4.2	Electrical safety		N/A



Prüfber Test Re	Prüfbericht-Nr.: Test Report No.:Sold 2001Seite 13 von 3 Page 13 of 3		e 13 von 38 age 13 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	Electrical circuits that carry voltage when the tool is in		N/A
	use or at rest shall be designed and insulated in such a		
	and electrical arcing is provented		
4 4	Thermal safety		Р
441	Hot surfaces		P
7.7.1	Surface temperatures of parts of the tool which are held		P
	during use or could be inadvertently touched shall		•
	follow the provisions of ISO 13732-1.		
4.4.2	Cold surfaces		Р
	Pneumatic fastener driving tools shall be designed in		Р
	such a way that the surface temperature of handles		
	does not fall by more than 5 K during operation of the		
	fastener-driving tool.		
4.5	Noise reduction		P
	I he hand-held tool shall be designed and constructed		Р
	so that the emission of hoise is reduced to the lowest		
	availability of means of reducing noise, in particular at		
	the source. Principles for designing tools with reduced		
	noise emission are contained in ISO/TR 11688-1 and		
	ISO/TR 11688-2.		
	The noise emission from using fastener driving tools		Р
	has two main sources:		
	— the hand-held tool itself;		
	— the workpiece.		
	lypical sources of noise emitted by the hand-held tool		Р
	the motor and drive mechanism:		
	— the exhaust air or pases:		
	- vibration or impact-induced noise.		
	Measures to reduce noise produced by fastener driving		Р
	tools include, for example, reducing the generation of		
	noise by damping and, in the case of pneumatic		
	fastener driving tools, by fitting an exhaust air damper.		
	See ISO/TR 11688-1. The success of the applied noise		
	reduction measures is assessed on the basis of the		
	other machines of the same family		
	NOTE Generally, noise emission from using fastener		Р
	driving tools cannot be controlled by the manufacturer		•
	of the fastener driving tool. The noise at the point of		
	action can also depend on the workpiece, working		
	environment, the workpiece support, the number of		
	driving operations and even regulation of the air		
4.0	pressure for pneumatic tools.		
4.6	wechanical impact (Vibration/recoil)		<u>ч</u>
	the mechanical impacts such as vibration and recoil		Р
	kept to a minimum during operation of fastener driving		
	tools. Principles for designing tools with reduced		
	vibration emission are contained in CR 1030-1.		



Prüfbei Test Re	richt-Nr.: 50259302 001	Seit Pa	te 14 von 38 age 14 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	Eastern of influence include:	1	Р
	— design of fastener driving tools by		Р
	— weight, and		
	- driving velocity;		
	— handling process by		Р
	- pressing effort,		
	direction.		
	- adjustment of the energy supply (avoidance of		
	excessive energy), and		
	— frequency of operation;		
	— workpiece by		Р
	— workpiece support and		
	- driving resistance of fasteners.		
	In the case of aperiodic impacts transmitted to the		Р
	hand-arm system, these factors may exert a mutual		
17	Influence on each other.		D
4./	emitted		F
4.7.1	Collating material residues		Р
	Fastener driving tools shall be designed in such a way	Metal collating material used.	Р
	that the free flight of collating material residues is	The plastic shroud provided.	
	restricted.		
	shall be guarded by any means, such as a plastic		Р
	shroud, etc.		
4.7.2	Discharged air, gas and lubricants		Р
	Discharged air, gas and lubricants emitted during		Р
	operation of fastener driving tools shall be directed so		
	that the user of the tool is not subjected to a safety		
	result of dust being raised from the workpiece. This can		
	be achieved by methods such as using exhaust		
	deflectors on pneumatic tools.		
	For gas tools, a small release of exhaust gas will be		N/A
	generated by regular operations, which will be included		
48	Francomics		P
4.8.1	Weight and control of the tool		P
4.8.1.1	Second handle		N/A
	Fastener driving tools loaded with the maximum	Less than 6kg	N/A
	quantity and size of specified fasteners weighing more		
	than 6 kg shall be supplied with a second handle which		
	bandle and the nature of fixing it shall be appropriate to		
	the intended principal use. The additional handle shall		
	be able to support the weight of the tool with maximum		
	specified fasteners by a factor of 1,5. The additional		
	handle shall be so designed to allow left-hand and right-		
4040	nand operation.		NI / A
4.8.1.2	Suspension device		N/A



Prüfber Test Re	icht-Nr.: 50259302 001 port No.:	Seit Pa	e 15 von 38 age 15 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	Toolo weighing more than 0.5 kg and used in a	Loop then 2 Ekg	NI/A
482	production environment shall be designed with provisions for mounting a suspension device such as a hanger. These provisions shall be able to support a weight of 1,5 times the weight of the tool, loaded with the maximum number and weight of fasteners. NOTE The weight is measured without fasteners.	Less than 2,5kg	N/A
4.0.2	To facilitate safe handling and operation of factorer		P D
	driving tools, the tool handle shall be designed using ergonomic principles. As indicated in <u>Annex E</u> , in relation to ergonomic handle design, the following shall be considered:		F
	 the space between the handle and the magazine shall be sufficient to accommodate the operator's grasp; 		Р
	 the space between the handle and the magazine and the length of handle behind the trigger shall accommodate the wearing of work gloves; 		Р
	 the handle and trigger shall have no operational preference to right-hand or left-hand operation. 		Р
	To allow the picking up of the tool while moving between working areas without operating the trigger, the grasping length immediately behind the trigger shall be \geq 74 mm (dimension L).	F32, F32/9032: 76mm; F32/9032C, F50/9040C:80mm F50, F50/9040, F32/9032III, F50III, F50/9040III: 77mm	Р
	NOTE The ISO 7250 series has information regarding anthropometric measures for hand size, etc.		Р
4.9	User information		Р
4.9.1	Tool markings		Р
	The marking of a fastener driving tool shall be in		Р
102	Tool operating instructions		D
4.5.2	The operating instructions for a fastener driving tool shall be in accordance with 6.2.		P
4.10	Fire and explosion		Р
4.10.1	Hazardous energy supplies for pneumatic tools		Р
	The operating instructions for pneumatic fastener driving tools shall warn against the use of — oxygen, and — other flammable gases.	Only powered by compressed air.	Р
4.10.2	Release of flammable gas from gas tools and gas containers		N/A
4.10.2.1	Gas containers		N/A
	Gas containers shall pass manufacturing and filling examinations to avoid hazards due to leakage.		N/A
4.10.2.2	Gas container leakage		N/A
	Maximum yearly leakage at +20 °C shall be less than 10 g for gas containers equipped with a metering valve or adapter if applicable.		N/A
4.10.2.3	Gas container connection to the tool		N/A
4.10.2.3. 1	General		N/A



Prüfber Test Re	icht-Nr.: 50259302 001 port No.:	Seit Pa	e 16 von 38 age 16 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	Connection between gas containers and tool shall be designed to avoid non-typical gas discharge for the following defined conditions:		N/A
4.10.2.3. 2	Long-term connection leakage		N/A
	For a tool at rest, the gas container shall have weight loss rates of less than 10 g on a monthly basis at +20 °C.		N/A
4.10.2.3. 3	Short-term connection leakage		N/A
	With the workpiece contact fully depressed, the gas container shall have weight loss rates of less than 1 g/h at +20 °C.		N/A
4.10.3	Rupture due to high temperatures in the tool		N/A
	Gas containers, specified for a certain type of gas tools, shall withstand the pressure resulting from the maximum temperature, <i>T</i> max, of +50 °C in the gas container chamber. The maximum pressure in the gas container, resulting from this maximum temperature, shall have a safety factor of 1,5 for the design of the gas container.		N/A
5	Verification		Р
5.1	General		Р
	The tests detailed in <u>5.2</u> to <u>5.10</u> shall be carried out on new production sample(s).	Meet the requirement	Р
5.2	Protection against mechanical hazards		Р
5.2.1	Protection against points and edges of fasteners		P
	A visual inspection shall be carried out to ascertain that points and edges of fasteners are protected.	Meet the requirement	Р
5.2.2	Prevention of ejected fasteners		<u>Р</u>
5.2.2.1	Connection to the energy supply system		P P
<u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	 For the tests in 5.2.2.1.2 and 5.2.2.1.3, energy supply is considered as: in the case of a pneumatic tool, compressed air at maximum stated operating pressure; in the case of a gas tool, full gas container and battery (if battery can be removed). Both sequences of gas container and battery connection/disconnection have to be done according to 5.2.2.1.2 and 5.2.2.1.3. 	Meet the requirement	P
5.2.2.1.2	Conformity on connection		Р
	a) The tool, with fasteners and workpiece contact and trigger not operated, shall be connected to the energy supply for a minimum 10 s.	Meet the requirement	Р
	b) The tool shall be then disconnected.		Р
	c) Steps a) and b) are repeated four additional times (for a total of five times).		Р
	d) During the test, no driving operation shall occur.		Р
5.2.2.1.3	a) The tool with fasteners shall be connected to the		P P
	l enerav.		



Prüfbe Test Re	richt-Nr.: 50259302 001	Seit Pa	te 17 von 38 age 17 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	b) The tool is then operated by driving at least one		Р
	fastener and is then disconnected.		-
	c) The tool shall then be operated normally in the correct sequence that would cause a driving operation if the tool was energized, and no driving operation shall occur.		Р
	d) Steps a), b) and c) are repeated four additional times (for a total of five times).		Р
5.2.2.2	Prevention of accidental trigger operation		Р
	Functional testing is carried out to confirm that the trigger is fitted in such a manner that it cannot be operated unintentionally:		Р
	— in the case of a pneumatic tool, compressed air at maximum stated operating pressure;	Pneumatic tool	Р
	— in the case of a gas tool, full gas container and battery (if battery can be removed).		N/A
	For this purpose, the fastener driving tool is pushed and pulled a minimum of three times over a cylindrical obstacle of a maximum of 15 mm in diameter and minimum of 5 mm in height which is placed on a level surface. No unintentional driving operation shall occur during the tests	Meeting the requirement	Р
	A functional test is made to ascertain that the requirement set out under 4.2.2.2 is satisfied.		Р
5.2.3	Prevention of free flight of fasteners		Р
	The fasteners are measured to establish whether a workpiece contact is required. The workpiece contact travel, before operation, is measured to ensure compliance with 4.2.3.	See 4.2.3.1	Р
	Functional testing to ensure compliance with <u>4.2.3.2</u> .		Р
	Visual inspection to ensure compliance with <u>4.2.3.3</u> .		Р
	Visual inspection to ensure compliance with <u>4.2.3.4</u> .		Р
	Visual testing to ensure compliance with <u>4.2.3.5</u> , and functional testing of the marked actuation systems to ensure fasteners are prevented from free flight.		Р
5.2.4	Design of the workpiece contact		Р
5.2.4.1	General		Р
	The dimensions of the workpiece contact shall be measured to ascertain whether the requirement is satisfied as set out under 4.2.4		Р
5.2.4.2	Extended workpiece contact		Р
	Testing is carried out to ascertain whether a workpiece contact fitted is functionally safe in operation. The workpiece contact is operated five times in horizontal up, horizontal down and vertical positions and shall always return to its starting position.		Р
	Tools depending on compressed air for workpiece contact operation shall be tested at 80 % +5 % Ps max		Р
5.2.4.3	Retracted workpiece contact		N/A
	Functional testing is carried out to ascertain whether		N/A
5.2.4.4	Intended resting position		Р



Prüfber Test Re	icht-Nr.: 50259302 001 port No.:	Seit Pa	te 18 von 38 age 18 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	The tool is loaded with the maximum mass of fasteners possible and is placed on a level surface in its normal resting position. A force of between 20 % and 25 % of the tool mass is applied to the top of the tool. The force is then removed and the tool is then raised by its trigger using a 12 mm (\pm 0,5 mm) rod at the midpoint of the trigger, the time taken to fully depress the trigger shall not be less than 1 s. A means shall be provided to ensure that the tool does not tip laterally by more than 10° during the test. The tool shall not operate during the test. The tool mass is calculated using the tool mass without supply hose or fasteners. The pressure supplied to the tool shall be the minimum as specified in <u>6.4.1</u> .	Tested and OK	P
5.2.5	Actuation modes		P
5.2.5.1	workpiece contact		I
	Testing and measurement shall be conducted to ascertain whether the extended workpiece contact meets the operating force requirements of <u>4.2.5.1</u> , <u>Table 1</u> . The tools shall be tested with the maximum mass of fasteners in <u>4.2.5.1</u> into a suitable solid wood, such as pipe, at 80 % <i>Pe</i> max ± 5 %		Р
	Tools with actuation mode selectors shall be evaluated		Р
	Tool actuation modes shall be evaluated as below in the horizontal-down, horizontal-up, and vertical orientations. The test conditions of this section are described using the horizontal-down orientation and shall be repeated for the horizontal-up and vertical tool orientations.		Ρ
5.2.5.1.1	Full sequential actuation		N/A
	a) Hold the tool in the horizontal-down orientation without touching the work surface		N/A
	b) Bring the tool into contact with the work surface, fully engaging the workpiece contact.		N/A
	c) Operate the trigger (a single driving operation shall occur). Release the trigger.		N/A
	d) Without moving the tool away from the work surface, operate and hold the trigger (no driving operation shall		N/A
	e) While continuing to hold the trigger in the operating position, move the workpiece contact away from the work surface to allow the workpiece contact to fully disengage; then bring it back into contact with the work surface, fully engaging the workpiece contact (no driving operation shall occur).		N/A
	f) Release the trigger and move the tool away from the work surface.		N/A
	g) Repeat steps b) and c), where a single driving operation shall occur as described in step c).		N/A



Prüfber Test Re	Prüfbericht-Nr.: Test Report No.:50259302 001Seite 19 von 38 Page 19 of 38			
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung	
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation	
				
	For tools where the extended workpiece contact does not become fully disengaged when releasing the trigger, the test is repeated by continuing to hold the trigger and the extended workpiece contact is moved to contact the workpiece and no driving operation shall occur.		N/A	
5.2.5.1.2	Single sequential actuation		N/A	
	a) Hold the tool in the horizontal-down orientation without touching the work surface.		N/A	
	b) Bring the tool into contact with the work surface, fully engaging the workpiece contact.		N/A	
	c) Operate the trigger (a single driving operation shall occur). Release the trigger.		N/A	
	d) Without moving the tool away from the work surface, operate and hold the trigger (a single driving operation shall occur).		N/A	
	e) While continuing to hold the trigger in the operating position, move the tool far enough from the work surface to allow the workpiece contact to fully disengage; then bring the tool into contact with the work surface so that the workpiece contact is fully engaged (no driving operation shall occur). Belease the trigger		N/A	
5.2.5.1.3	Contact actuation		Р	
	a) Hold the tool in the horizontal-down orientation without touching the work surface.		Р	
	b) Operate the trigger (no driving operation shall		Р	
	c) While still holding the trigger, bring the tool into contact with the work surface, fully engaging the workpiece contact (a single driving operation shall occur). Release the trigger.		Р	
	d) Without moving the tool away from the work surface, operate and hold the trigger (a single driving operation shall occur).		Р	
	e) While continuing to hold the trigger in the operating position, move the tool from the work surface to allow the workpiece contact to fully disengage, then bring the tool into contact with the work surface, whereby the workpiece contact is fully engaged (a single driving operation shall occur). Release the trigger.		Р	
	f) Move the tool away from the work surface. Hold the tool in the horizontal down orientation without touching the work surface.		Р	
	g) Bring the tool into contact with the work surface. No driving operation shall occur.		P	
5.2.5.1.3 .1	Contact actuation with automatic reversion		N/A	
	a) Verification of time-out or reversion with contact actuation first		N/A	
	1) Hold the tool in the horizontal-down orientation without touching the work surface.		N/A	
	2) Press the trigger.		N/A	



Prüfber Test Re	icht-Nr.: 50259302 001 port No.:	Seit Pa	e 20 von 38 age 20 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	3) Then within a time MORE than specified by the manufacturers' instructions, bring the tool into contact with the work surface, fully engaging the workpiece		N/A
	4) Disengage the workpiece contact from the work		N/A
	 5) Press the trigger. Keeping the trigger pressed, bring the tool into contact with the work surface, fully engaging the workpiece contact within a time LESS than specified by the manufacturers' instructions (a driving operation shall occur), each time the workpiece contact is fully engaged with the work surface within a time less than specified by the manufacturers' 		N/A
	 instructions. 6) Keeping the trigger pressed, disengage the workpiece contact from the work surface and wait for MORE than the time specified by the manufacturers' instructions. Bring the tool into contact with the work surface, fully engaging the workpiece contact (no driving operation shall occur) 		N/A
	7) Release trigger and disengage the workpiece		N/A
	8) Repeat five times.		N/A
	b) Verification of time-out or reversion with sequential		N/A
	 Hold the tool in the horizontal-down orientation without touching the work surface. Press the trigger and fully engage the workpiece contact (no driving operation about a surface) 		N/A
	2) Release the trigger and disengage the workpiece		N/A
	 3) Hold the tool in the horizontal-down orientation without touching the work surface. 		N/A
	4) Fully engage the workpiece contact with the work surface.		N/A
	5) Press the trigger (a single driving operation shall occur).		N/A
	6) Keeping the trigger pressed, bring the tool into contact with the work surface, fully engaging the workpiece contact within a time LESS than specified by the manufacturers' instructions (a driving operation shall occur), each time the workpiece contact is fully engaged with the work surface within a time less than specified by the manufacturers' instructions.		N/A
	7) Disengage the workpiece contact from the work surface and release the trigger.		N/A
5.2.5.1.4	Continual contact actuation		N/A
	a) Hold the tool in the horizontal-down orientation		N/A
	 b) Bring the tool into contact with the work surface, fully angaging the workpiece contact 		N/A
	c) Operate and hold the trigger [driving operation(s) shall occur]. Release the trigger [driving operation(s) shall stop].		N/A



Prüfbe r Test Re	icht-Nr.: 50259302 001	Seil Pa	te 21 von 38 age 21 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
[
	d) While holding the tool in the same orientation and with the workniece contact (if so equipped) fully		N/A
	engaged on the work surface, operate and hold the		
	trigger [driving operation(s) shall occur]. While		
	continuing to hold the trigger in the operating position,		
	move the tool from the work surface so that the		
	workpiece contact (if so equipped) can fully disengage		
5959	[driving operation(s) shall stop]. Release the trigger.		D
5.2.5.2	Functional testing measurement and inspection are		P P
	carried out to ascertain whether the tool meets the		•
	requirements in <u>4.2.5.2</u> .		
5.2.5.3	Actuation modes for tools with a workpiece contact		N/A
	designed to normally push against hard surfaces		
	like steel and concrete		
	Full sequential actuation for tools designed to drive		N/A
	shall comply with the appropriate tests in 5.2.5.1.1		
	Single sequential actuation for tools designed to drive		N/A
	fasteners into hard surfaces such as steel and concrete		-
	shall comply with the appropriate tests in <u>5.2.5.1.2</u>		
5.2.5.4	Actuation modes for tools without a workpiece		N/A
	Contact		NI/A
	the actuation mode of the tool meets the requirements		N/A
	in 4.2.5.4.		
5.2.6	Strength of the fastener driving tool		Р
5.2.6.1	Stress by compressed air for pneumatic tools		Р
	A pressure/leak test is carried out over a period of 120		Р
	S of al lease 1,5 × (PS max) + 5 $\%$ – 0 $\%$.	No leakage	D
	failure.	No leakage	
5.2.6.2	Stress by mechanical impact		Р
	Compliance with <u>4.2.6.2</u> shall be verified by dropping a	Dropped from 1 m height	Р
	sample tool three times onto a concrete surface from a		
	neight of 1 m. No failures that result in an unsafe		
	positioned to vary the point of impact		
	No failures that result in an unsafe operating condition	No unsafe operating condition	Р
	shall occur by repeating the relevant tests of 5.2.2 to	occurs.	
	<u>5.2.10 and 5.10.2.3</u> .		
	Leakage losses through the seals do not constitute a	No leakage	Р
527	Surfaces edges and corners		D
5.2.7	A visual inspection shall be carried out to ascertain that	No sharp edge and abrasive	P
	the requirements under <u>4.2.7</u> are satisfied.	surface	-
5.2.8	Stability		Р
	Functional testing shall be carried out to ascertain	The stable position is informed	P
	whether the tool remains in a stable position on a	In the manual. And the tool can	
	shall be connected. The tool shall remain stable in at		
	least one position. The manufacturer shall identify		
	suitable positions in accordance with <u>6.2.2.4</u> .		
5.2.9	Tool construction		P



Prüfber Test Re	richt-Nr.: 50259302 001	Seit Pa	e 22 von 38 age 22 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	If operated without fasteners, it is conducted at the lowest recommended operating pressure.		Р
	If operated with fasteners, the fasteners shall be the minimum size recommended for the tool, at <i>Ps</i> max and using suitable material.		Р
	No failures that result in an unsafe operating condition shall occur.		Р
	During the course of the test, normal cleaning, maintenance and cooling operations shall be allowed.		Р
	NOTE Pressure requirements only apply to pneumatic tools.		Р
	Inspection and test is required to ensure correct threads are fitted.		Р
5.2.10	Unintentional change of actuation mode		Р
	Tools with actuation mode selectors shall be tested to ensure compliance with <u>4.2.10</u> .	Meeting the requirement	Р
5.3	Electrical safety		N/A
	For pneumatic tools, a functional test is made to ascertain that the requirement set out under <u>4.3</u> is satisfied		N/A
	In the case of gas fastener driving tools, functional tests are made to ascertain that the requirement set out under 4.3 is satisfied.		N/A
	Three functional tests are conducted to verify that electrical shock and arcing do not occur.		N/A
	a) Operate the gas tool with the battery installed and visually observe that no arcing occurs.		N/A
	b) Shock hazard shall be evaluated by visual inspection for accessible points of electrical contact with the operator's hand or fingers during operation.		N/A
	c) A visual and functional test shall be made to ensure that the designed battery cannot be installed with reversed polarity.		N/A
5.4	Thermal safety		Р
5.4.1	Hot surfaces		Р
	An examination shall be carried out to confirm that the surface temperature on parts of the fastener driving tools which can be touched by the operator during operation do not exceed the limit values set out in ISO 13732-1.		Ρ



Prüfber Test Re	Prüfbericht-Nr.: Test Report No.:50259302 001Seite 23 von Page 23 of			
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung	
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation	
542	The fastener driving tool shall be brought up to a surface temperature of 20 °C ±2 °C prior to carrying out the measurements. The fastener driving tool shall be operated for a period of 5 min with 12 driving operations per minute, and the surface temperatures thus produced measured in accordance with ISO 13732-1.	F32/9032: Handle: 26,1°C, Trigger: 25,8 °C Enclosure:26,8 °C Ambient: 21,7 °C F32/9032C: Handle: 24,5°C, Trigger: 23,2 °C Enclosure:25,5 °C Ambient: 20,4 °C F32/9032III: Handle: 25,0°C, Trigger: 24,1 °C Enclosure:27,4 °C Ambient: 20,9°C F50: Handle: 24,7°C, Trigger: 26,9 °C Enclosure:27,5 °C Ambient: 20,5°C F50/9040: Handle: 25,0°C, Trigger: 24,0 °C Enclosure:28,1 °C Ambient: 20,8°C F50/9040C: Handle: 24,6°C, Trigger: 22,4 °C Enclosure:24,9 °C Ambient: 21,0°C F50/9040III: Handle: 26,1°C, Trigger: 24,7 °C Enclosure:31,0 °C Ambient: 21,8°C	P	
5.4.2	Le the same of provinctio tools, on overningtion is to be		P	
	carried out to confirm that the surface temperature of the grasping surface of the handles does not fall by more than 5 K during operation.		F	
	a) The surface temperatures of the handles of the fastener driving tool are measured and recorded as initial values.		Р	
	b) The fastener driving tool is operated for a period of 5 min at a frequency of 12 operations per minute.		Р	
	c) The resultant surface temperatures are thereafter measured and recorded as final values.		Р	
	The requirement is satisfied if the following condition is fulfilled: initial temperature value – final temperature value ≤5 K		Р	
	The surface temperature measurements shall be carried out in accordance with ISO 13732-3.		Р	
	During this procedure, the supplied compressed air shall exhibit a temperature conforming to the initial values of the handles of the tool.		Р	



Prüfbericht-Nr.: <i>Test Report No.:</i>		50259302 001	Seit Pa	e 24 von 38 ige 24 of 38
Absatz		EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforder	ungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

5.5	Noise		Р
	Noise emission values shall be measured and reported	F32/9032:	Р
	in accordance with EN 12549 for fastener driving tools	L _{PA} : 86,94 dB(A),	
	designed to drive fasteners into wood. For tools with	Lwa: 99,94 dB(A),	
	workpiece contacts designed to normally push against	L _{PA} (at operator's position):	
	hard surfaces like steel or concrete, the noise emission	93,28 dB(A),	
	values shall be measured and reported in accordance	L _{PC} ,peak(at operator's	
	with EN 15895:2011, Annex D. The noise emission	position):118,91 dB(C)	
	values, and their uncertainties, shall be declared as a	F32/9032C:	
	dual number declaration in accordance with ISO 4671.	LPA. 00,44 $UD(A)$,	
		LWA. 99,44 UD(A),	
		$92.46 dB(\Delta)$	
		L_{PC} neak(at operator's	
		position):116.62 dB(C)	
		F32/9032III:	
		L _{PA} : 86.03 dB(A).	
		L _{WA} : 99,03 dB(A),	
		L _{PA} (at operator's position):	
		92,42 dB(A),	
		L _{PC} ,peak(at operator's	
		position):116,39 dB(C)	
		F50:	
		$L_{PA}: 85,66 \text{ dB}(A),$	
		LWA. 90,00 UD(A),	
		PA(at operator s position).	
		L_{PC} peak(at operator's	
		position):119.43 dB(C)	
		F50/9040:	
		L _{PA} : 86,16 dB(A),	
		L _{WA} : 99,16 dB(Å),	
		L _{PA} (at operator's position):	
		92,64 dB(A),	
		L _{PC} ,peak(at operator's	
		position):120,94 dB(C)	
		F50/9040C:	
		$L_{PA}: 86,72 \text{ dB}(A),$	
		L_{WA} . 99,72 UD(A),	
		$P_{A}(at operator s position).$	
		L _{PC} .peak(at operator's	
		position):120,62 dB(C)	
		F50/9040III:	
		L _{PA} : 86,37 dB(A),	
		Lwa: 99,37 dB(A),	
		L _{PA} (at operator's position):	
		92,33 dB(A),	
		L _{PC} ,peak(at operator's	
FC	Machaniaal impact (vikyation (vacati)	position):119,67 dB(C)	
5.6	Mechanical Impact (Vibration/recoil)		۲ <u>ا</u>



Prüfbericht-Nr.: 50259302 001 Seite 25 von 3			
Test Re	port No.:	Pa	age 25 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	The vibration total value shall be measured and	$E_{20}(0020; a; 0) E_{20}^{2} = (a^2)$	P
	reported in accordance with ISO 8662-11:1999 and ISO 8662-11:1999/Amd 1:2001.	F32/9032: ah:2,533 fl/S ² F32/9032C: ah:2,393 m/s ² F32/9032III: ah:2,470 m/s ² F50: ah:2,560 m/s ² F50/9040: ah:2,740 m/s ² F50/9040C: ah:2,611 m/s ² F50/9040III: ah:2,541 m/s ²	P
	be declared in accordance with EN 12096.		Р
5.7	Materials and substances processed, used or emitted		P
5.7.1	Collating material residues		Р
	A visual test shall be carried out to confirm that tools which use fasteners with metal collating materials are fitted with a shield, to ascertain that the requirements of 4.7.1 are satisfied.	Metal collating material for fasteners used. The plastic shroud provided.	Р
5.7.2	Discharged air, gas and lubricants		Р
	Functional testing shall be carried out to ensure compliance with 4.7.2.		Р
	Check that information about small releases of gas generated by regular operations is in the operating instructions under 6.2.4.		Р
5.8	Ergonomics		Р
5.8.1	Weight and control of the tool		Р
	The weight of the tool, loaded with the maximum quantity and size of specified fasteners, shall be determined.		Р
5.8.1.1	Second handle		N/A
	The second handle shall be loaded to a force 1,5 times the reference weight, to confirm compliance with <u>4.8.1.1</u> .	The weight of tool with max. weight fasteners is less than 6 kg	N/A
5.8.1.2	Suspension device		N/A
	If tools are provided with a provision, such as a hanger for a suspension device, the provisions are subjected to a force 1,5 times the weight of the tool for 5 min. After 5 min, the provision shall remain intact and show no permanent deformation.		N/A
5.8.2	Handle design		Р
	The requirements shall be verified.		P
5.9	User information		P
5.9.1	Tool marking		P
	Tools shall be visually inspected to determine whether the information required by ISO 12100 and <u>6.1</u> has been applied to the fastener driving tool in a durable manner and in a clearly visible form. A comparison is undertaken to ascertain whether this data corresponds with the information given in the operating instructions.		P
5.9.2	Tool operating instructions		Р
	A visual inspection is carried out to ascertain whether operating instructions are available and if the requirements of <u>6.3</u> are satisfied.		Р
5.10	Fire and explosion		Р
5.10.1	Hazardous energy supplies for pneumatic tools		Р



Prüfbericht-Nr.: 50259302 001 Test Report No.:		Seite 26 von 38 Page 26 of 38	
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	T	1	1
	Verify that the operating instructions for pneumatic tools contain a clear warning prohibiting the use of oxygen and flammable gases.		Р
5.10.2	Release of flammable gas from gas tools and gas containers		N/A
5.10.2.1	Gas containers		N/A
	Verify that gas container manufacturing and filling tests comply with the relevant regulations and standards in the market to which gas containers are brought. Examples of standards and regulations are listed in the Bibliography.		N/A
5.10.2.2	Gas container leakage		N/A
	The maximum yearly leakage for ready-to-use gas container shall be measured by performing the following test:		N/A
	a) Select a batch of at least five full gas container specimens		N/A
	b) Mount metering valves or adaptors, if applicable, onto the gas containers.		N/A
	c) Thermally calibrate the gas containers to +20 °C.		N/A
	d) Weigh each gas container.		N/A
	e) Let the gas containers rest at least 7 days, with rest time measured.		N/A
	f) Weigh gas containers then calculate yearly leakage (365 days basis).		N/A
	Test is passed if no specimen leaks more than 10 g on a yearly basis.		N/A
5.10.2.3	Gas container connection to the tool		N/A
5.10.2.3. 1	Long-term connection leakage		N/A
	Long-term connection leakage between the gas container and the tool shall be assessed.		N/A
	Before conducting a long-term connection leakage test, measure the installation gas leakage first by following these steps:		N/A
	— Weigh one full gas container then install it in the tool.		N/A
	— Within 30 s, remove the gas container from the tool then weigh it.		N/A
	— Calculate weight loss.		N/A
	— Repeat this test with four other gas containers.		N/A
	I he installation gas leakage is the average weight loss of the five tests.		N/A
	To measure the long-term connection leakage between the gas container and the tool, perform the following test:		N/A
	a) Select a batch of at least five full gas container specimens and five tools.		N/A
	b) Mount metering valves or adaptors, if applicable, onto the gas containers.		N/A
	c) Thermally equilibrate the batch of gas containers and tools at +20 °C.		N/A
	d) Weigh the gas containers.		N/A
	e) Insert the gas containers into the tools.		N/A



Prüfber Test Re	richt-Nr.: 50259302 001	Seite 27 von 38 Page 27 of 38	
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	f) Let the tool rest undisturbed for at least 7 days at 20 °C \pm 1 °C.		N/A
	g) Remove the gas containers from the tools.		N/A
	h) Weigh each gas container, then deduct the installation gas leakage as previously measured.		N/A
	i) Calculate the monthly leakage (30 days basis).		N/A
	The test is passed if no specimen leaks more than 10 g		N/A
5 10 0 0	on a monthly basis.		NI/A
5.10.2.3. 2	Short-term connection leakage		N/A
	The short-term connection leakage between the gas container and the tool shall be assessed.		N/A
	Before conducting a short-term connection leakage test, measure first the installation gas leakage as described in 5.10.2.3.1.		N/A
	To measure the short-term connection leakage between the gas container and the tool, perform the following test:		N/A
	a) Select a batch of at least five full gas container specimens and five tools.		N/A
	b) Mount metering valves or adaptors, if applicable, onto the gas containers.		N/A
	c) Thermally equilibrate the batch of gas containers and tools at +20 °C.		N/A
	d) Weigh the gas containers.		N/A
	e) Insert the gas containers into the tools.		N/A
	T) Fully engage the workpiece contact and keep it		N/A
	g) Bemove the gas containers from the tools		N/A
	 h) Weigh the gas containers, then deduct the installation gas leakage previously measured. 		N/A
	i) Calculate hourly leakage (1 h basis).		N/A
	The test is passed if no specimen leaks more than 1 g on an hourly basis.		N/A
5.10.3	Rupture test for gas containers at high temperature		N/A
	The high-temperature safety of the gas containers shall comply with the following tests.		N/A
5.10.3.1	Safety factor test		N/A
	a) Read the maximum temperature, <i>T</i> max, in the gas container compartment of the tool from the tool's		N/A
	standard value $Tmax = +50$ °C.		
	b) Determine the pressure, <i>P</i> max, in the gas container resulting from the temperature, <i>T</i> max.		N/A
	c) Select a batch of five gas container specimens before they get filled with gas. This test procedure requires gas containers without containing gas.		N/A
	d) Keep the test specimens stable at room temperature.		N/A
	e) Apply hydraulic pressure to each gas container either by water or oil.		N/A



Prüfbei Test Re	port No.: 50259302 001	Seit Pa	te 28 von 38 age 28 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	f) Increase pressure until the gas containers burst		N/A
	Pressure increase rate shall remain smaller than 2		
	bar/s.		<u> </u>
	g) Measure the pressure causing the gas container to burst (<i>P</i> burst).		N/A
	The test is passed if all five gas containers tested have a <i>P</i> burst greater than 1,5 times their <i>P</i> max.		N/A
5.10.3.2	Long term test at Tmax		N/A
	a) Select five full gas container specimens.		N/A
	b) Set up metering valve or adapter, if applicable.		N/A
	c) Heat the test specimens to the temperature <i>T</i> max,		N/A
	e.g. by putting them into a water bath.	+	
	u) reep the test specimens stable at the temperature T_{max} for 30 min		N/A
·	The tested das containers shall not show any	+	NI / A
	permanent deformations or signs of leakage		IN/A
6	Information for use	+	P
6.1	Markings		P
	- Fastener driving tools shall be marked visibly. legibly		P
	and indelibly. Markings shall be located to withstand		-
	normal wear and tear throughout the expected life of		ļ
	the tool with the following information:	<u> </u>	<u> </u>
	- name and full address of the manufacturer and,		P
	where applicable, his authorized representative;	- 	<u> </u>
	INUTE I The address can be simplified if there is		P
	manufacturer (and where applicable, his authority of		ļ
	representative) can always be identified. In any overt		ļ
	the address on the plaque should be sufficient for mail		ļ
_	to reach the company.	<u> </u>	۱
	- designation of series or type;		P
	NOTE 2 The designation of the tool can be achieved by		Р
	a combination of letters and numbers.	I	l
	— serial number, date code or batch number;		P
	— year of manufacture (may be part of the serial		Р
	number, date code or batch number);	- 	
	— In the case of pneumatic fastener driving tools, the		P
	units such as her or psi shall be indicated as the list		ļ
	- specification of the fasteners which can be used	+	P
	shall include minimum and maximum diameter length		"
	and fastener characteristics, such as gauge and angle	<u> </u>	I
	- Fastener driving tools shall be permanently marked		Р
	with the following symbols (see <u>Annex C</u>):		ļ
	- C.1, showing that the operating instructions shall be		P
	read before work starts;		L
	- 0.2, requiring operators and others in the work area		P
	U wear eye protection;	+	<u> </u>
	to wear hearing protection		l h
	— Interchangeable magazines shall be marked on the	+	N/A
	magazine (if the manazine changes the recommended		IN/A
	fasteners for the product) in such a way that the		ļ
	appropriate fasteners can be identified.		I



Prüfbe Test Re	richt-Nr.: 50259302 001	Seit Pa	te 29 von 38 age 29 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	— Gas containers shall be clearly marked with the gas		N/A
	tools for which they are designed.		17.4
6.2	Instruction handbook		Р
6.2.1	General		Р
	The information to be provided to the user, the content of this clause, together with ISO 12100:2010, 6.4.5.2 and 6.4.5.3, shall apply.		Р
	The information provided by the manufacturer is an important but not exclusive basis for safe use of the tool. It should provide sufficient information for the end user to perform an initial risk assessment.		Р
	The hazards identified in <u>6.2.2.5</u> to <u>6.2.2.12</u> are foreseeable in the general use of hand-held tools. The information provided with the tool shall state that the user should assess the specific risks that may be present as a result of each use.		Р
	Each fastener driving tool shall be accompanied by operating instructions drawn up by the manufacturer or his authorized representative in one of the official languages of the country of sale, which shall contain the following information:		Р
	 name and address of the manufacturer or supplier or any other agent responsible for placing the tool on the market; 		Р
	- designation of the machinery;		Р
	- designation of the series or type;		Р
	 information stating whether the tool is designed to drive fasteners into hard surfaces like steel and concrete; 		Р
	— information on noise emission as stated in <u>6.2.2.12</u> and <u>6.4.2.1;</u>		Р
	— information on vibration emission; see <u>6.2.2.12;</u>		Р
	— maintenance instructions; see <u>6.5;</u>		Р
	 — explanations of the symbols (described in <u>Annexes</u> <u>C</u> and <u>D</u>) marked on the tool; 		Р
	 designation of the resources to be used (energy supply system, lubricants); 		Р
	— correct mode of connection to the energy supply system;		Р
	safe handling;		P
	 action to be taken in the event of operational difficulties such as jamming and rectification of such difficulties; 		Р
	 — diagrammatic drawing showing the construction of the fastener driving tool; 		Р
6.2.2	Operator's instructions		Р
6.2.2.1	General		Р
	The instructions and warnings stated below shall be given with all fastener driving tools unless the risk assessment shows that they are not relevant to a particular fastener driving tool. Words of equivalent meaning may be used.		P
6.2.2.2	Statement of use		P



Prüfber Test Re	icht-Nr.: 50259302 001	Seit Pa	te 30 von 38 age 30 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	The operator's instruction shall include a description of the correct use of the tool. The operator's instruction shall state that any other use is forbidden. Fastener driving tools with continual contact actuation or contact actuation shall only be used for production applications.		Р
6.2.2.3	Allowance for user		Р
	The operator's instruction shall be written to cover professional and non-professional users.		Р
6.2.2.4	General safety rules		Р
	Warnings shall be given with regards to significant hazards arising from or associated with the use of the fastener driving tools. The following is a non-exhaustive list of warnings. Manufacturers may provide additional warnings:		Р
	 Keep fingers away from trigger when not operating this tool and when moving from one operating position to another. 		Р
	— Multiple hazards. Read and understand the safety instructions before connecting, disconnecting, loading, operating, maintaining, changing accessories on, or working near the tool. Failure to do so can result in serious bodily injury.		Р
	 Keep all body parts such as hands and legs, etc. away from firing direction and ensure fastener cannot penetrate workpiece into parts of the body. 		Р
	— When using the tool, be aware that the fastener could deflect and cause injury.		Р
	- Hold the tool with a firm grasp and be prepared to manage recoil.		Р
	- Only technically skilled operators should use the fastener driving tool.		Р
	 Do not modify the fastener driving tool. Modifications may reduce the effectiveness of safety measures and increase the risks to the operator and/or bystander. 		Р
	 Information for tools intended to be used on hard surfaces such as steel and concrete regarding the additional downforce required to operate the tool and prevent slipping. 		N/A
	- Do not discard the safety instructions.		Р
	— Do not use a tool if the tool has been damaged.		Р
	 Be careful when handling fasteners, especially when loading and unloading, as the fasteners have sharp points which could cause injury. 		P
	— Always check the tool before use for broken, misconnected or worn parts.		Р
	— Do not overreach. Only use in a safe working place. Keep proper footing and balance at all times		Р
	 Keep bystanders away (when working in an area where there is a likelihood of through traffic of people). Clearly mark off your operating area. 		Р
	— Never point the tool at yourself or others.		Р
	- Only wear gloves that provide adequate feel and safe control of triggers and any adjusting devices.		Р
	- Always use the second handle (if supplied).		Р



Prüfbericht-Nr.:	50250202 001
Test Report No.:	30233302 001

Prüfber Test Re	icht-Nr.: 50259302 001 port No.:	Seit Pa	e 31 von 38 age 31 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

	The tool's resting position shall be specified.		Р
6.2.2.5	Projectile hazards		Р
	The following apply:		Р
	- The fastener driving tool shall be disconnected when		Р
	unloading fasteners, making adjustments, clearing		
	jams or changing accessories.		
	 During operation be careful that fasteners penetrate 		Р
	material correctly and cannot be deflected/misfired		
	towards operator and/or any bystanders.		
	 During operation, debris from workpiece and 		Р
	fastening/collation system may be discharged.		
	 Always wear impact-resistant eye protection with 		Р
	side shields during operation of the tool.		
	 The risks to others shall be assessed by the 		Р
	operator.		
	— Be careful with tools without workpiece contact as		Р
	they can be fired unintentionally and injure operator		
	and/or bystander.		
	- Ensure tool is always safely engaged on the		Р
6.0.0.6	workpiece and cannot slip		
6.2.2.6	Operating nazards		<u>Р</u>
	I ne following apply:		<u>Р</u>
	— Hold the tool correctly: be ready to counteract		Р
	normal of sudden movements such as recoil.		
	- Maintain a balanced body position and secure		Р
	Appropriate safety glasses shall be used and		Р
	- Appropriate safety glasses shall be used and		F
	recommended		
	Appropriate hearing protection shall be worn		P
	- Use the correct energy supply as directed in the		P
	manual		•
	— Operating instructions shall direct the user on		P
	appropriate uses of the tool. This shall include		•
	information on what applications are allowed and which		
	are not, and the associated risks such as when working		
	on the back of trucks and moving platforms, etc.		
	- Operating instructions shall warn about risks		Р
	associated with selective actuation.		
6.2.2.7	Repetitive motions hazards		Р
	When using a tool for long periods, the operator may		Р
	experience discomfort in the hands, arms, shoulders,		
	neck, or other parts of the body.		
	The following apply:		Р
	 While using a tool, the operator shall adopt a 		Р
	suitable but ergonomic posture. Maintain secure footing		
	and avoid awkward or off-balanced postures.		
	 If the operator experiences symptoms such as 		Р
	persistent or recurring discomfort, pain, throbbing,		
	aching, tingling, numbress, burning sensation, or		
	stimess, do not ignore these warning signs. The		
	operator shall consult a qualified health professional		
	regarding overall activities.	1	



Prüfber Test Re	icht-Nr.: 50259302 001	Seit Pa	te 32 von 38 age 32 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	- Information shall be provided by the manufacturer		D
	regarding residual risks relating to repetitive work		F
	hazards such as duration of use in respect to working		
	positions and forces such information can be found in		
	EN 1005-3 and EN 1005-4.		
	— Any risk assessment should focus on muscular-		Р
	skeletal disorders and is preferentially based on the		
	effective in reducing disorders		
6228	Accessory and consumable hazards		Р
0.2.2.0	The following apply:		P
	- The operating instructions shall specify the		P
	appropriate accessories and consumables.		
	— Disconnect the energy supply to the tool, such as air		Р
	or gas or battery as applicable, before		
	changing/replacing accessories such as workpiece		
	contact, or making any adjustments.		
	- Use only the sizes and types of accessories that are		Р
	- Use only lubricants recommended by the tool		D
	manufacturer		F
	- Specification of the fasteners which can be used		Р
	shall include minimum and maximum diameter, length,		-
	and fastener characteristics, such as gauge and angle.		
6.2.2.9	Workplace hazards		Р
	The following apply:		Р
	— Slips, trips and falls are major causes of workplace		Р
	injury. Be aware of slippery surfaces caused by use of		
	the tool and also of trip nazards caused by the airline		
	— Proceed with additional care in unfamiliar		P
	surroundings. Hidden hazards may exist such as		F
	electricity or other utility lines.		
	- This tool is not intended for use in potentially		Р
	explosive atmospheres and is not insulated from		
	coming into contact with electric power.		_
	— Make sure there are no electrical cables, gas pipes		P
	etc. that could cause a hazard if damaged by use of the		
62210	LUUI.		в
0.2.2.10	If the tool is used in an area where there is static dust, it		Р
	may disturb the dust and cause a hazard. The following		•
	apply:		
	- Risk assessment should include dust created by the		Р
	use of the tool and the potential for disturbing existing		
	dust.		
	— Direct the exhaust so as to minimize disturbance of		P
	uusi in a dust filled environment.		
	- where dust of exhaust hazards are created, the priority shall be to control them at the point of emission		
6.2 2 11	Noise hazards		P
VIEIEI	The information for use shall give the following		Р
	information and warnings:		



Prüfber Test Re	Prüfbericht-Nr.: Test Report No.:50259302 001Seite Pa		e 33 von 38 age 33 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	T		
	— Unprotected exposure to high noise levels can cause permanent, disabling, hearing loss and other problems such as tinnitus (ringing, buzzing, whistling or		P
	humming in the ears).		P
	controls for these hazards are essential.		
	Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpieces from "ringing".		P
	- Use appropriate hearing protection.		Р
	— Operate and maintain the tool as recommended in these instructions, to prevent an unnecessary increase in noise levels.		Р
	 If the tool has a silencer, always ensure it is in place and in good working order when the tool is being operated. 		Р
	NOTE 1 These values are tool-related characteristic values and do not represent the noise generation at the		Р
	depend on the working environment, the workpiece, the workpiece support, and the number of driving		
	In addition, reference should be made to noise		Р
	NOTE 2 Workplace design can also serve to reduce		Р
	noise levels, for example placing workpieces on sound- damping supports (see also ISO 11690-1).		
6.2.2.12	Vibration hazards		Р
	The information for use shall draw attention to vibration hazards that have not been eliminated by design and construction and remain as residual vibration risk. It shall enable employers to identify the circumstances in which the operator is likely to be at risk from vibration exposure. If the vibration emission value obtained using ISO 8662-11:1999 and ISO 8662-11:1999/Amd 1:2001 does not adequately represent the vibration emission in the intended uses (and foreseeable misuses) of the machine, additional information and/or warnings shall be supplied to enable the risks arising from vibration to be assessed and managed.		P
	related characteristic value and does not represent the influence to the hand-arm-system when using the tool. Any influence to the hand-arm-system when using the tool will for example depend on the gripping force, the contact pressure force, the working direction, the adjustment of energy supply, the workpiece, the workpiece support.		P
	The following warnings, or equivalent, shall be given:		Р
	- Information to conduct a risk assessment of these hazards and implementation of appropriate controls is essential.		Р
	— Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.		Р



Absatz EN ISO 11148-13:2018 Messergebnisse - Bemerkungen B Clause Anforderungen – Prüfungen / Requirements - Tests Measuring results - Remarks E — Wear warm clothing when working in cold conditions, keep your hands warm and dry. — If you experience numbress, tingling, pain or whitening of the skin in your fingers or hands, seek medical advice from a qualified occupational health professional regarding overall activities. — — Operate and maintain the tool as recommended in these instructions, to prevent an unnecessary increase in vibration levels. — — Hold the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher. — 6.2.3 Additional safety instructions for pneumatic tools — — Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — — Keep fingers away from trigger when not operating supply before compressed air at yourself or anyone else. — — — Never direct compressed air at yourself or anyone else. — — — Never direct compressed air at yourself or anyone else. — — — Never direct compressed air at yourself or anyone else. — — — Never direg a pneuma	34 von 38 e 34 of 38
Clause Anforderungen – Prüfungen / Requirements - Tests Measuring results - Remarks E	Bewertung
	Evaluation
conditions, keep your hands warm and dry.	Р
 If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, seek medical advice from a qualified occupational health professional regarding overall activities. — Operate and maintain the tool as recommended in these instructions, to prevent an unnecessary increase in vibration levels. — Hold the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher. 6.2.3 Additional safety instructions for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic tastener driving tools: — Compressed air can cause severe injury. — Always shut off air supply, and disconnect tool from air supply when not in use. — Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a neumatic tool by its hose. — Never drag a neumatic tool by its hose. — Never drag a neumatic tool by its hose. — Never drag a neumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool	
Writening of the skin in your ingers of nands, seek medical advice from a qualified occupational health professional regarding overall activities. — Operate and maintain the tool as recommended in these instructions, to prevent an unnecessary increase in vibration levels. — Hold the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher. 6.2.3 Additional safety instructions for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools: — Compressed air can cause severe injury. — Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. — Never direct compressed air at yourself or anyone else. — When using pneumatic tool by its hose. — Never dag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never dag a pneumatic tools on texceed the <	Р
Intercent advice norma quantity occupation freaming professional regarding overall activities. — Operate and maintain the tool as recommended in these instructions, to prevent an unnecessary increase in vibration levels. — Hold the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher. 6.2.3 Additional safety instructions for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools: — Compressed air can cause severe injury. — Always but off ar supply, and disconnect tool from air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never darg a pneumatic tool by its hose. — Never darg a pneumatic tools do not exceed the maximum operating pressure <i>PS</i> max. — Preumatic tools schould only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Decareful when using pneumatic tools as the tool coul	
Operate and maintain the tool as recommended in these instructions, to prevent an unnecessary increase in vibration levels. Other the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher. Other tools and the tool from the grip force is higher. Other tools for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools: Other tools for many share tool from air supply when not in use. Other the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. Other tool and when moving from not operating the tool and when moving from one operating position to another. Other tools compressed air at yourself or anyone else. Other tools compressed air at yourself or anyone else. Other dramage or loose hoses or fittings. Other using pneumatic tool by its hose. Other using presume Ps max. Other dramage or combustible gases for operating preumatic tools schould only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. Other using pneumatic tools as the tool could become cold, affecting grip and control. Other dramage or combustible gases for operating pneumatic tools creates a fire and explosion hazard. Other work process to reduce noise and vibration, and minimize wear. Other using pneumatic tools as the tool could become cold, affecting grip and control. Other dols creates a fire and explosion hazard. Other dols creates a fire and explosion hazard. Other dols creates a fire and explosion haz	
these instructions, to prevent an unnecessary increase in vibration levels. Hold the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher. 6.2.3 Additional safety instructions for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools: Compressed air can cause severe injury. Always shut off air supply, and disconnect tool from air supply when not in use. — Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never darag a pneumatic tool by its hose. — Never darag a pneumatic tool by its hose. — Never darag a pneumatic tool by its hose. — Never darag a pneumatic tool by its hose. — When using pneumatic tools, do not exceed the maximum operating pressure PS max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and contr	Р
in vibration levels. — Hold the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher. 6.2.3 Additional safety instructions for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools: — Compressed air can cause severe injury. — Always shut off air supply, and disconnect tool from air supply when not in use. — Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never carry a pneumatic tool by its hose. — Never carry a pneumatic tool by its hose. — When using pneumatic tool by its hose. — When using pneumatic tools, do not exceed the maximum operating pressure Frs max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Be careful when using pneumatic tools as the tool could become cold, alfecting grip and control. 6.2.4 Additional safety instructions for gas tools <td>-</td>	-
— Hold the tool with a light, but safe, grip because the risk from vibration is generally greater when the grip force is higher. 6.2.3 Additional safety instructions for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools: — Compressed air can cause severe injury. — Always shut off air supply, and disconnect tool from air supply when not in use. — Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools cools as the tool could become cold, alfecting grip and control. 6.2.4 Additional safety instructions for gas tools — Gas tools shall only be used with gas containers which are liste	
risk from vibration is generally greater when the grip force is higher. 62.3 Additional safety instructions for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools: — Compressed air can cause severe injury. — Always shut off air supply, and disconnect tool from air supply when not in use. — Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — When using pneumatic tool by its hose. — Weer drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — When using pneumatic tools do not exceed the maximum operating pressure <i>Ps</i> max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. <td>Ρ</td>	Ρ
6.2.3 Additional safety instructions for pneumatic tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools: — Compressed air can cause severe injury. — Always shut off air supply, and disconnect tool from air supply when not in use. — Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools:	
62.2.3 Additional safety instructions for preunnance tools The following additional warnings (or equivalent) shall be given with all pneumatic fastener driving tools:	
be given with all pneumatic fastener driving tools: - Compressed air can cause severe injury. - Always shut off air supply, and disconnect tool from air supply when not in use. - Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. - Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. - Never direct compressed air at yourself or anyone else. - Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. - Never damaged or loose hoses or fittings. - Never drag a pneumatic tool by its hose. - When using pneumatic tools do not exceed the maximum operating pressure <i>Ps</i> max. - Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. - Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. - Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 62.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: - Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	<u>Р</u> Р
Compressed air can cause severe injury. Always shut off air supply, and disconnect tool from air supply when not in use. Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. Never direct compressed air at yourself or anyone else. Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. Never drag a pneumatic tool by its hose. Never drag a pneumatic tool by its hose. Never drag a pneumatic tool by its hose. Never drag a pneumatic tool by before tool compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. Should become cold, affecting grip and control. Always diffecting grip and control. Compressed air at tools as the tool could become cold, affecting grip and control. Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	F
 Always shut off air supply, and disconnect tool from air supply when not in use. Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. Never direct compressed air at yourself or anyone else. Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. Never drag a pneumatic tool by its hose. Never drag a pneumatic tool by its hose. Never drag a pneumatic tool by its hose. When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 62.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, 	P
air supply when not in use. Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. Never direct compressed air at yourself or anyone else. Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. Never drag a pneumatic tool by its hose. - When using pneumatic tool by its hose. - When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. - Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. - Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. - Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, -	P
 Always disconnect the tool from the compressed air supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never drag a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, 	-
supply before changing accessories, making adjustments and/or repairs, when moving away from an operating area to a different area.	Р
adjustments and/or repairs, when moving away from an operating area to a different area.	
operating area to a different area. — Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never carry a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 62.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	
 Keep fingers away from trigger when not operating the tool and when moving from one operating position to another. Never direct compressed air at yourself or anyone else. Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. Never carry a pneumatic tool by its hose. Never drag a pneumatic tools by its hose. When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, 	
Intertool and when moving non-one operating position it to another. — Never direct compressed air at yourself or anyone else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never carry a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	Р
else. — Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — Never carry a pneumatic tool by its hose. — — Never drag a pneumatic tool by its hose. — — When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. — — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	Р
— Whipping hoses can cause severe injury. Always check for damaged or loose hoses or fittings. — — Never carry a pneumatic tool by its hose. — — Never drag a pneumatic tool by its hose. — — When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. — — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. — 6.2.4 Additional safety instructions for gas tools — — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, —	-
check for damaged or loose hoses or fittings. — Never carry a pneumatic tool by its hose. — Never drag a pneumatic tool by its hose. — When using pneumatic tools, do not exceed the maximum operating pressure Ps max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	Р
 Never carry a pneumatic tool by its hose. Never drag a pneumatic tool by its hose. When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, 	
 Never drag a pneumatic tool by its hose. When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, 	<u> </u>
 When using pneumatic tools, do not exceed the maximum operating pressure <i>Ps</i> max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, 	<u> </u>
Infaximum operating pressure Ps max. — Pneumatic tools should only be powered by compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	Р
compressed air at the lowest pressure required for the work process to reduce noise and vibration, and minimize wear. — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. — Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	D
work process to reduce noise and vibration, and minimize wear. — — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. — 6.2.4 Additional safety instructions for gas tools — The following additional warnings (or equivalent) shall be given with all gas tools: — — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, —	Г
minimize wear. — — Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	
— Using oxygen or combustible gases for operating pneumatic tools creates a fire and explosion hazard. — — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. — 6.2.4 Additional safety instructions for gas tools — The following additional warnings (or equivalent) shall be given with all gas tools: — — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool, —	
pneumatic tools creates a fire and explosion hazard. — Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	Р
Be careful when using pneumatic tools as the tool could become cold, affecting grip and control. 6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools:	
6.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	Р
0.2.4 Additional safety instructions for gas tools The following additional warnings (or equivalent) shall be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	Ν/Δ
be given with all gas tools: — Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	<u>Ν/Α</u>
— Gas tools shall only be used with gas containers which are listed in the operating instructions of the tool,	
which are listed in the operating instructions of the tool,	N/A
or which have been tested according to ISO 11148-13	
by the gas container supplier.	
— Be careful when using gas tools, as the tool can	N/A
Decome not, allecting grip and control.	NI/A
	IN/A
— In the case that liquid combustible gas comes into	N/A
contact with human skin, injuries may occur.	



Prüfbe ı Test Re	icht-Nr.: 50259302 001	Seit Pa	e 35 von 38 age 35 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	- Gas containers shall be marked according to the required transport regulation		N/A
	Handle gas containers carefully and check for damages. Damaged gas containers can explode and cause injury.		N/A
	- Read and follow the instructions supplied with the gas container.		N/A
	 Ensure combustible materials are not exposed to hot exhaust gases. 		N/A
	 Do not use gas tools in explosive areas as the sparks generated in the tool may cause fire or explosion. 		N/A
	 The operating instructions for gas tools shall warn against careless storage, high temperature, handling and disposal of gas containers and batteries or accumulators. 		N/A
	— For gas tools, a small release of gas might be generated by regular operations.		N/A
6.2.5	Specific safety instructions		Р
	Warnings shall be given about any specific or unusual hazards associated with the use of the tool. Such warnings shall indicate the nature of the hazard, the risk of injury and the avoidance action to take.		P
6.3	Operating instructions		P
	The operating instructions shall include the following where appropriate:		Р
	- assembly instructions, including recommended guards and accessories;		P
	— Illustrated description of functions;		P -
	Imitations on tool use by environmental conditions;	 	P
	— instructions for setting and testing;		P -
	general instructions for use, accessories and limits on the type of workpiece; for tools with access actuality with access and access and access and access and access access and access		P
	— for tools with contact actuation with automatic reversion, information on how it works, such as sequence and any time limitations, taking into consideration health and safety precautions when operating.		P
6.4	Data		P
6.4.1	General		Р
	The instructions shall include the information on the tool and the following:		Р
	— mass of the fastener driving tool in kg;		Р
	— in the case of pneumatic tools, the minimum and maximum operating pressures.		Р
6.4.2	Noise		Р
6.4.2.1	Declaration of emission		Р
	The instructions shall include the noise-emission values and uncertainties as specified in <u>4.5</u> and the reference number of the test codes, EN 15895 and EN 12549.	L _{PA} : 87,0 dB(A), K _{PA} : 2.5 dB; L _{WA} : 100,0 dB(A), K _{WA} : 2.5dB; L _{PA} (at operator's position): 93,4 dB(A), K _{PA} : 2.5 dB; L _{PC} ,peak(at operator's position): 121,0 dB(C), K _{PC} : 2.5 dB	P



Prüfbe Test Re	richt-Nr.: 50259302 001	Seit Pa	e 36 von 38 age 36 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation
	The technical color literature of featurer driving tools	1	
	shall contain the same noise emission declaration as the instructions.		P
6.4.2.2	Additional information		Р
	If the values for noise emissions obtained using the appropriate tests defined in <u>5.5</u> do not adequately represent the emissions during the intended use of the machine, additional information and/or warnings shall be supplied to enable an assessment and the management of the associated risks.		P
6.4.3	Mechanical impact (vibration/recoil)		P
0.4.3.1	The instructions shall include the emission values and uncertainty as specified in <u>5.6</u> and the reference number of the test code, ISO 8662-11:1999 and ISO 8662-11:1999/Amd 1:2001 as applicable.	ah:2,8 m/s², K:1.5 m/s²	P
	If the vibration value exceeds 2,5 m/s2, the average hand-arm vibration value shall be declared with uncertainty.		Р
	If the emission value does not exceed 2,5 m/s2, this shall be mentioned.		Р
6.4.3.2	Additional information		Р
	If the vibration-emission values obtained using the appropriate tests defined in <u>5.6</u> do not adequately represent the emissions during the intended use of the machine, additional information and/or warnings shall be supplied to enable an assessment and the management of the associated risks.		Р
	Tools that produce recoil shall be supplied with information regarding continuous use, such as repetitive strain injury.		P
	Information on vibration emission shall also be provided in the sales literature.		Р
6.5	Maintenance instructions		Р
	The maintenance instructions shall contain:		P
	— instruction to keep the tools safe by regular		Р
	 information on when, and instructions on how, any maintenance shall be carried out; for instance, after a specified time of operation, a specified number of cycles/operations, a stated number of times per year; 		Р
	 instructions for disposal so as not to impose hazards to personnel and the environment: 		Р
	- a list of the service operations that the user shall		Р
	— instructions for lubrication if required:		P
	 for the maintenance of fastener driving tools, only spare parts specified by the manufacturer or his authorized representative shall be used; 		P
	— repairs shall be carried out only by agents authorized by the manufacturer having due regard to the information given in the operating instructions.		Р



Prüfber Test Re	icht-Nr.: 50259302 001 port No.:	Seit Pa	e 37 von 38 ge 37 of 38
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

Annex	List of significant hazards		Р	
A(inform				
ative)				-
Annex	Example of fastener driving tools cover	red by ISO		Р
B(Inform	11148-13			
	Symbols for labels and signs			Р
C(norm				I
ative)				
,	Table C.1 — Symbols for labels and signs		Р	
	Symbol Significance	Corresponding standard		
	C.1 Read and understand tool lab manual. Failure to follow war rould result in sectors injury.	ts and tings ES0 3064-2		
		150 7010-04002		
	C2			
	shall wear impact constant of wear impact constant of wear impact constant of the chief of the c	e pre- 150 3364-2		
		150 7018-34003		
	C3			
	Operators and others in work thall year hearing protection.	#***#		
		150 3864-2 150 7018-34004		
Annex	Warnings and symbols for labels and signs for			Р
D (norm	tools with contact actuation capability	-		
ative)				
D.1	Additional symbols, markings and war	nings for		Р
	tools with contact actuation capability			
	— I ools that either operate in contact acti		Р	
	for contact actuation mode of have select			
	actuation mode selectors shall be conside			
	contact actuation and shall be visibly mark			
	symbol D.1 (see Table D.1).			
	— The front cover of the instruction manu	al shall be		Р
	marked with the symbol <u>D.1</u> , with the addi	tional		
	wording: "Warning: Please read the inst			
	warnings for this tool carefully before u	use. Failure		
	to do so could lead to serious injury."			
	For tools fitted with the symbol <u>D.1</u> , all rele	evant		Р
	chall be preceded by the same symbol D	Instructions		
	Table D 1 In addition the following warning			
	be highlighted in bold lettering and be ver			
	— Do not rest your finger on the triager w		Р	
	up the tool, moving between operating are		-	
	positions or walking, as resting finger on ti			
	lead to inadvertent operation. For tools wit			
	actuation, always check the tool before us			
	the correct mode is selected.			



Prüfbericht-Nr.: Test Report No.:50259302 001Seite 38 von 38 Page 38 of 38				
Absatz	EN ISO 11148-13:2018	Messergebnisse - Bemerkungen	Bewertung	
Clause	Anforderungen – Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation	
	— This tool has either selective actuation for contact actuation or continuous contact actuation by actuation mode selectors or is a contact actuation or continuous actuation contact tool and has been marked with the symbol above. Its intended uses are for production applications such as pallets, furniture, manufactured housing, upholstery and sheathing. NOTE See symbol <u>D.1</u> in <u>Table D.1</u> .		Ρ	
	 If using this tool in selective actuation mode, always ensure it is in the correct actuation setting. 		Р	
	 Do not use this tool in contact actuation for applications such as closing boxes or crates and fitting transportation safety systems on trailers and lorries. 		Р	
	 Be careful when changing from one driving location to another. 		Р	
	Second U.1 — Symphotics for Labet's and signs Second U.1 Description II.1 Transmit of regulating of operating in contact armatises mode Image: Second Control of the		Ρ	
Annex E(inform ative)	Information on the ergonomic design of the handle		N/A	

End of Test Report

Comment



Measurement Equipment List

Testing Start Date	14.06.2019
Testing end date	20.06.2019
Project Manager	Herman Wang
Test Report Number	50259302 001
Order Item Number	0180107186A00120
Customer	Taizhou Dajiang Ind Co., Ltd.
Product Name	Air Nailer

					Page	1 of 1
Old ID	Equip.	Description	Model	Manufacturer	Inte. (mon)	Due Date
1.656A	1810016	Feeler Gauge	15blade	SHQK	36	27.10.2020
1.0631	1809531	Digital display caliper	91511	Sata	12	02.07.2020
1.640	1810000	Longer Tape	NA	Jtech	36	21.05.2020
1.382	1809799	Electronic scales	BS-30KA	SH	12	24.06.2020
1822624	1822624	Pressure gauge	0-1MPa	AirTAC	12	12.09.2019
1.215G	1809677	Temp. & Humidity recorder	175H1	Testo	12	08.04.2020
1.658B	1810022	Force gauge	SN-500	SUNDOO	12	29.12.2019
1.381C	1809787	Data acquisition unit	34972A	Keysight	12	02.04.2020
1.056C	1809515	Stopwatch	HW30	EXTECH	12	05.11.2019
1.202	1809667	Atmosphere Barometer	DYM3	NB	24	10.04.2021
1.514	1809921	Wind speed meter/anemometer	Fluke925	FLUKE	12	10.07.2020
1.425	1809846	Integrating-averaging sound level meter	2240	B&K	12	08.07.2020
1.183	1809653	Acoustical calibrator	Type4231	B&K	12	12.04.2020
1.182	1809652	Calibration Exciter	Type4294	B&K	12	12.04.2020
1.424	1809845	Hand-arm vibration meter	4447	B&K	12	06.05.2020
1.657A	1810018	Pressure gauge	0-1.6MPa	HZHF	24	03.07.2021
1.415	1809836	Test Probe 11	IEC 61032	SHQK	36	20.04.2022
1.399	1809817	Angle ruler	DA-102	DA	12	03.01.2020

Signature: Herman Wang