

OPERATING INSTRUCTIONS

NutBee®

- Original operating instructions -



NOTE

In case of doubt, the original German version of the operating instructions applies.

**Cordless blind riveting tool
NBL-21 / NBLF-25**

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HST-Tool-Manager:

from 2.0.6.0

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1 Operating principles

Dear customers,

thank you for choosing a HS-Technik GmbH product.

This quality product „Made in Germany“ fulfils the highest requirements with regard to performance, quality and accuracy. When used correctly the product will undoubtedly perform very well for many years.

These operating instructions contain information on safety and for the operation of the tool. In addition it contains information on the dimensions and technical data. We would be happy to assist you with additional information or to answer your questions. Our technical support and our technicians would be happy to assist you.

1.1 Scope of delivery

- Cordless blind riveting tool
- USB Cable (Type A on Mini B)
- Operating instructions

1.2 General information

Read the tool operating instructions before initial operation. **Please pay particular attention to Chapter 2 „General Safety Notes“.**

This operating instruction should make it easier for the operator to get to know the tool and to use it for its intended purpose. The operating instructions include important information related to the safe and proper operation of the tool. Compliance with these instructions helps you to:

- Avoid hazards
- Avoid repair costs and downtimes
- Increase the reliability and the lifespan of the product.

This operating instructions must be read and applied by every person who is assigned to conduct work using this tool.

In addition to this operating instructions the applicable regulations on accident prevention and environmental protection should be observed.



NOTE

After reading, keep the operating instructions in a place accessible to every operator. If you have any further questions, please feel free to contact us.

1.3 Signs and symbols used

The following signs and symbols will be used in this operating instructions or on the product:

Symbol	Explanation
	Read this operating instructions
	Do not dispose with household waste
	Do not dispose the battery in a fire
	Do not throw the battery into water
	EU conformity marking
	Registered trademark
	Use only indoors
	Protection class II
	Intrinsically safe transformer
	Battery is charging
	Defective battery
	Battery fully charged
	Direct current
	Universal Recycling Symbol

1.4 Structure of the warnings

The warnings are structured as follows:



DANGER

Indicates an immediate dangerous situation that can lead to serious or even deadly injuries and/or that could seriously damage or even destroy the tool.



WARNING

Indicates a potentially dangerous situation that can lead to serious injuries and/or damage to the tool.



NOTE

Important and useful information on using this tool.

1.5 Technical terms and abbreviations used

Abbreviation	Meaning
°C	Degrees Celsius, temperature
A/C	Alternate current
Ah	Amp hours, electric charge, battery capacity
a_{hv}	Overall vibration
dB(A)	Decibels, sound pressure level (A-weighted)
D/C	Direct current
Hz	Hertz, Frequency
Li-Ion	Lithium-ion, battery technology
L_{pA}	Emission sound pressure level, workplace-related
m/s^2	Acceleration, Vibration

Abbreviation	Meaning
min ⁻¹	Revolutions per minute, Speed
mNN	Meters above sea level, height
SN	Serial number
V	Volts, electrical voltage
W	Watts, electrical power

1.6 Intended use

This battery operated blind riveting tool was designed to prepare rivet joints. The tool may only be used for this purpose as described in this operating instructions. Only materials that are suitable for this type of tool may be used.



WARNING

Intended use also includes

- following all indications of the operating instructions and
- observance of inspection and maintenance works.

Any other use or use beyond that is considered improper use. HS-Technik GmbH is not liable for any damage resulting from this.

1.7 Improper use



DANGER

The use of this tool for other purposes, e.g. for hammering, is not permitted. Improper use or incorrect accessories can lead to dangers with unforeseeable consequences.

We accept no liability for damage and malfunctions resulting from non-observance of these operating instructions and improper use.

1.8 Duties of the operator

The operator undertakes to only allow people who are familiar with the basic regulations on occupational safety and accident prevention and who have been trained on how to use the tool at the workplace to work with this tool.

The safety awareness of the personnel while working has to be reviewed at regular intervals.

In addition it is necessary to establish safety measures for operator safety which are based on an estimation of the vibration load during actual conditions of use.

1.9 Duties of personnel

Prior to its use all people who work with this tool are obligated to inform themselves of the applicable workplace safety and accident prevention regulations for this power tool and to observe them.

It is recommended that every operator wears hearing protection.

1.10 Training of personnel

Only trained and instructed personnel should work with this tool. The responsibilities of the personnel must be clearly defined. Trainees may only work with this power tool under the supervision of an experienced person.

1.11 Guarantee and liability

Guarantee and liability claims for personal injury and property damage are excluded, if caused by one or more of the following:

- improper use
- failure to observe these operating instructions
- improper installation, commissioning, operation and maintenance of the device
- Operating the device with defective safety devices or improperly installed or non-functioning safety and protective devices
- Failure to observe the information in the operating instructions regarding transport, storage, assembly, commissioning, operation and maintenance of the device
- unauthorised structural modifications to the device
- improperly performed repairs
- catastrophes due to external influences and acts of God

1.12 Copyright

These operating instructions are intended solely for the operator and its personnel.

They contain guidelines and information which may not be fully or partially

- reproduced
- distributed or
- otherwise shared.

The copyright of these operating instructions is retained by HS-Technik GmbH.

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2 General safety information for power tools



DANGER

Read all the safety information, instructions, illustrations and technical data which is provided with this power tool. Failure to follow the instructions below may result in electric shock, fire and/or serious injury.



WARNING

This power tool was manufactured in accordance with current state-of-the-art technology and recognised technological safety guidelines. However, its use may jeopardise the health and life of the user or third parties or risk damage to other property.



WARNING

The workplace must only be used in accordance with its intended use and in absolutely perfect condition.



NOTE

Keep all safety information and instructions for the future.



NOTE

Only have your device repaired by qualified professional staff and only with original replacement parts which are available at HS Technik GmbH. This ensures that the safety of the device is maintained.

The term „power tool“ used in the safety information refers to mains-operated power tools (with mains cable) and to battery-operated power tools (without mains cable).

2.1 Occupational safety

- a) **Keep your work area clean and well-lit.** Cluttered or dark work areas can lead to accidents.
- b) **Do not work with the power tool in an explosive environment in which there are flammable liquids, gases or dust.** Power tools generate sparks that can ignite the dust or fumes.

- c) **Keep children and other people away while using the power tool.** You can lose control of the power tool if you are distracted.

2.2 Electrical safety

- a) **Avoid body contact with grounded surfaces such as pipes, heaters, stoves and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- b) **Keep power tools away from rain or moisture.** Penetration of water into a power tool increases the risk of electric shock.
- c) **Do not misuse the connection cable in order to carry or hang up the charger or to pull the plug out of the socket. Keep the connection cable away from heat, oil, sharp edges or moving parts.** Damaged or tangled connection cables increase the risk of electric shock.
- d) **If operating the charger in a damp environment cannot be avoided, use a fault-current circuit breaker.** The use of a fault-current circuit breaker reduces the risk of electric shock.
- e) **Check the electrical equipment regularly. Immediately remove loose connections and scorched cables.** Loose connections or scorched cables can lead to electric shock and risk of fire.

2.3 Safety of people

- a) **Be alert, pay attention to what you are doing and take care when you are working with a power tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while using the power tool can result in serious injury.
- b) **Wear personal protective equipment and always safety glasses.** Wearing personal protective equipment such as a dust mask, non-slip safety shoes, safety helmet or hearing protection, depending on the type and use of the power tool lowers the risk of injury.
- c) **Prevent accidental starting. Ensure that the power tool is switched off before you connect it to the power supply and/or the battery, pick it up or carry it.** Accidents can occur if you have your finger on the switch while carrying the power tool or if you connect the power tool to the power supply when it is switched on.

- d) **Avoid abnormal postures. Make sure you have a secure footing and keep your balance at all times.** This gives you better control of the power tool in unexpected situations.
- e) **Wear suitable clothing. Do not wear loose clothing or jewellery. Keep hair and clothing away from moving parts.** Loose clothing, jewellery or long hair can get caught in moving parts.
- f) **Do not lull yourself into a false sense of security and do not disregard the safety rules for power tools, even if you are familiar with the power tool after repeated use.** Careless action can lead to serious injuries within a split second.
- g) **Actively avoid accidentally switching on the power tool. If the tool is to be in idle mode for a long time, remove the battery beforehand.** This prevents unintentional start-up.

2.4 Use and handling of power tools

- a) **Do not overload the power tool. Use the power tool specific for the work you are doing.** With the appropriate power tool you will work better and more safely in the power range indicated.
- b) **Do not use any power tool which has a defective switch.** A power tool which can no longer be switched on or off is dangerous and must be repaired.
- c) **Remove the detachable battery before you make changes to device settings, change application tool parts or put away the power tool.** This precaution prevents unintentional start up of the power tool.
- d) **Keep unused power tools out of the reach of children. Do not let anyone use the power tool who is not familiar with it or has not read this operating instructions.** Power tools are dangerous when used by inexperienced people.
- e) **Maintain power tools and the application tool with care. Check whether moving parts function properly and do not jam, whether parts are broken or damaged in such a way that the function of the power tool is affected. Have damaged parts repaired before using the power tool.** Many accidents are caused by poorly serviced power tools.
- f) **Keep the tool sharp and clean.** Carefully maintained tools jam less often and are easier to manage.

- g) **Use power tools, application tools, etc. in accordance with these instructions. While doing so observe the work conditions and the activities to be performed.** The use of power tools for anything other than the intended application can lead to dangerous situations.
- h) **Keep handles and gripping surfaces dry, clean and free of oil and grease.** Slippery handles and gripping surfaces do not allow safe operation and control of the power tool in unforeseen situations.
- i) **Use the correct power tool.** Do not use under-performing tools for heavy loads. Do not use tools for purposes and work for which they are not intended.
- j) **Check your device for damage.** Before continued use of the tool safety equipment must be tested for proper and intended function. Check whether the function of moving parts is okay, whether they do not jam, whether any parts are broken, whether all other parts function properly and whether all conditions which must be met for the proper operation of the device have been met. Damaged protective devices and parts should be properly repaired or replaced by trained customer service unless otherwise specified in this operating instructions. Damaged switches must be replaced by a customer service workshop. Do not use any tools which cannot be properly switched on and off using the start button.

2.5 Use and handling of battery tools

- a) **Charge the battery only with charging devices which are recommended by the manufacturer.** There is a risk of fire if the battery is used on an unsuitable charger and the battery can be permanently damaged.
- b) **Use only the specifically designated battery for the power tool.** The use of other batteries can lead to injuries and the risk of fire.
- c) **Keep the unused battery away from paper clips, coins, keys, nails, screws or other small metal parts which could cause a bypass of the contacts. Do not open the battery and do not short circuit.** A short circuit between the battery contacts can lead to burns or fire.
- d) **Fluid can leak out of the battery in the event of incorrect use. Avoid contact with it. In the event of accidental contact with skin rinse with water. If the fluid comes into contact with the eye seek medical help.** Leaking battery fluid can lead to skin irritations or burns.

- e) **Do not use damaged or altered batteries.** Damaged or altered batteries can behave unpredictably and can lead to fire, explosion or injury.
- f) **Do not expose a battery to fire or high temperatures.** Fire or temperatures above 130°C can cause an explosion.
- g) **Follow all instructions for charging and never charge the battery or the battery tool outside of the temperature range specified in the operating instructions.** Incorrect charging or charging outside of the approved temperature range can damage the battery and increase the risk of fire.

2.6 Service

- a) **Only have your power tool repaired by qualified professional staff and only with original replacement parts which can be available at HS Technik GmbH.** This ensures that the safety of the power tool is maintained.
- b) **Never perform maintenance on damaged batteries.** All maintenance of batteries may only be completed by the manufacturer or authorised customer service locations.

3 Important information about this tool

3.1 Handling the associated lithium ion battery

- a) **Observe the operating instructions of the Li-Ion battery.**
- b) **If the battery will not be used over a longer period of time it may not remain on the charger or on the machine.** If an interruption of work of more than 3 hours is expected the battery must be removed from the tool. Otherwise it cannot be excluded that the battery will be permanently damaged.
- c) **For safety reasons the Li-Ion battery should not remain on the activated charger for longer than 36 hours.** Remove the battery from the charger as soon as possible after charging is complete.
- d) **An empty battery should not be in contact with the machine or a charger disconnected from the mains for a longer period of time.** In both instances low currents flow which totally discharge the battery and can permanently damage it.
- e) **Always charge the Li-Ion battery as soon as possible after use and do not store it when empty.** If the battery is stored separately from the tool and the charger it's capacity will remain constant for a long period of time (loss approx. 5% per year).
- f) **Always transport the battery separately from the machine if possible.** This prevents accidental switching on of the machine as well as a total discharge of the battery.
- g) **Do not subject the Lithium-Ion battery to high temperatures (above 50°C) or direct sunlight.** If the battery gets warmer than 50°C during operation (charging or discharging) it must be immediately separated from the charger or the tool.
- h) **Under extreme use or temperature conditions batteries may leak. In the event of a leaky battery avoid contact with the skin or eyes.** The battery fluid is corrosive and can cause chemical burns to tissue. If the fluid comes into contact with the skin it must be washed immediately with soap and water and then rinsed with lemon juice or vinegar. If the fluid comes into contact with the eyes they must be rinsed for at least 10 minutes with water and a doctor must be consulted immediately.
- i) **Ensure that the Li-Ion battery does not fall or is not subjected to vibrations or shocks.**
- j) **Clean the battery contacts regularly with a cotton swab dipped in high-proof alcohol.**

NOTE



Lithium-Ion batteries have almost no self-discharge and have no memory effect. With proper and professional handling your tool will be reliably supplied with high energy density for a long period of time.

3.2 Information on the associated charger

- a) **Observe the operating instructions of the Li-Ion battery.**
- b) **The charger may not be connected to a step-up converter, generator or a direct current outlet.**
- c) **Ensure that the ventilation slots on the charger are not covered or blocked.**
- d) **Never charge the battery inside a carton or a closed container. The battery may only be charged in a well ventilated location.**
- e) **Do not charge the battery at temperatures BELOW 10°C or ABOVE 40°C.**
- f) **Do not store the power tool, the charger and the battery in locations in which temperatures are above 50°C. In particular, avoid direct sunlight.**

3.3 Structural modifications

No changes, additions or conversions to the power tool may be made without the approval of the manufacturer.

All conversion measures require written consent and confirmation by **HS-Technik GmbH**.



WARNING

In the event of the replacement of wear and tear parts only original replacement parts may be used.

3.4 Cleaning the device and disposal

Substances and materials used must be handled and disposed of properly, particularly when cleaning with solvents.

Do not throw the used battery into the household waste, fire or water, instead have it professional disposed of by a specialist or the manufacturer.



4 Start-up and use

DANGER

Risk of injury from damaged tools

Damaged tools can lead to injuries or damages.

- All damaged parts must be repaired before use.

Risk of injury from falling tools

Falling tools can lead to injuries or damages.

- Ensure you are self-belayed and have a secure footing.
- Avoid dropping the tool.



Risk of burns due to hot exhaust air

Hot air can escape through exhaust openings.

- Do not place any sensitive body parts directly in front of exhaust openings.

Risk of injury due to improper use

Improper use can lead to injuries or damage.

- Use the tool only for the intended purposes.

Risk of injury from substances

Substances such as lubricating oil and grease are flammable on the skin.

- Avoid contact with such substances.
- Should you still come into contact wash the affected area carefully.



NOTE

Maintain your tool with care. Follow the operating instructions during maintenance and cleaning. Keep the handle free of lubricants and dirt.



NOTE

Do not drop the tool, and do not let any other objects fall onto the tool. Protect it from impacts.



NOTE

Ensure that the tool does not come into contact with splashing water or oil.

4.1 Tool structure

- 1. Start button
- 2. Nose assembly with nose piece
- 3. Multi-colour LED
- 4. 18 V Li-Ion battery
- 5. OLED Display
- 6. LED for work area lighting



* Mouthpiece and threaded mandrel are not included in the standard scope of delivery and must be ordered separately.

4.2 Operation

4.2.1 Inserting and removing the battery

- In order to insert the battery (1), align it so that it can be easily pushed onto the mounting provided along the plastic guide. After sliding it on completely, the fastening clip (2) must lock the battery firmly and properly into place in the tool housing.
- In order to remove the battery push the fastening clip on the front side of the battery down and pull the battery forward and off.
- Don't use force to install the battery. If the battery can not be easily pushed on it was not correctly positioned.



NOTE

Always push the battery all the way in until it locks into place with a click.



WARNING

Risk of injury from falling battery

If the battery is not correctly locked it can fall out and cause injuries.

- Always ensure that the battery is fully locked into place.



1 - Battery

2 - Fastening clip

4.2.2 Press start button

Pressing or actuating the start button starts or stops the tool.



NOTE

The battery riveting tool only starts when the battery has sufficient capacity.



* - Start button

4.2.3 Front LED



WARNING

Risk of injury from the light emitting diode

Looking directly into the light emitting diode can lead to eye injuries.

- Never look directly into the light emitting diode.

The LED on the front of the tool is used to illuminate the assembly area. After pressing the start button, the LED lights up. It turns off automatically after a few seconds. The afterglow time of the LED can be parametrised in the HST-Tool-Manager under „setup“ → „general“ → „energy&lighting“.



* - Front LED

4.2.4 LED indicator at the back and sound signals

Circumferential indicator lights up green after setting, no sound signal

- Set stroke or set force was reached.
- The battery capacity is sufficient, the tool is ready for the next setting.

Circumferential indicator lights red after setting, no sound signal

- NOK riveting, tolerance + or - from set stroke or set force
- If the indicator blinks yellow-red multiple times after setting then the battery is almost empty.



* - LED Light indicator

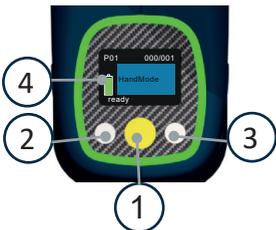


NOTE

The tool will only start after a battery change if the battery has sufficient capacity.

4.2.5 OLED Display

- After a sufficiently charged battery has been pushed on the tool will start.
- After pressing the start button, the tool is initialised. The back, circumferential indicator briefly lights up with multiple colours. A beep sounds and on the back of the tool the display indicates the current status.
- The tool is now ready for use.
- After several seconds without actuation the display will dim. After longer downtime the tool will switch into standby mode.



1. Button for menu activation and selection as well as for the NOK confirmation
2. Button for decreasing value (-)
3. Button for increasing value (+)
4. State of charge display

4.2.6 Selection of threaded mandrel and mouthpiece



NOTE

The threaded mandrel (sleeve) and the mouthpiece must be selected in accordance with the blind rivet nut, blind rivet bolt or earthing pin used.

You can use the riveting tool for processing different sizes and materials. When doing so, note the exact specification of the blind rivet nut or the blind rivet bolt and adjust the threaded mandrel (sleeve) and mouthpiece.

Blind rivet nuts M3 – M10
Blind rivet bolts M3 – M8



- 1) Mouthpiece
- 2) Threaded mandrel



NOTE

Use only the appropriate nose assembly for your blind rivet nut or blind rivet bolt. Non-compliance may cause damage to riveting machine. Furthermore, material damages can result from a damaged thread. Do not use force, the traction the nose assembly as well as the blind rivet nuts and blind rivet bolts must be able to be tightened by hand.



NOTE

Assemble the nose assembly only in accordance with the quick guides provided by HS-Technik GmbH.

4.2.7 Adjusting the mouthpiece

The mouthpiece must be adjusted to the blind rivet nuts to be processed. Screw open blind rivet nuts by hand so that 1 - 2 threads stick out of the nut, see Figure 1. Lock the mouthpiece in this position using the lock nut. With automatic spinning on the threaded mandrel should now be flush with the blind rivet nut.

With closed blind rivet nuts screw the nuts by hand as far as they will go, see Figure 2, and then lock the mouthpiece using the lock nut. With automatic spinning on the nut should now be optimally spun on.



NOTE

These figures are intended as a guide and must be proved in tests with the nuts used!



Fig. 1



Fig. 2

4.2.8 Set blind rivet nuts

NOTE

Always place the riveting tool at a right angle (90°) to the work surface to be riveted. An oblique placement leads to faulty riveting. Use only appropriate threaded mandrels (sleeves) and mouthpieces for the rivet nut. An incorrect threaded mandrel (sleeve) and mouthpiece can lead to damage of the threaded mandrel (sleeve), tool, screw thread and components. You can find the size of the blind rivet nut in the rivet manufacturer's information.





1. Place the rivet on the mandrel.
2. Press start button and thread on blind rivet nut. While doing so hold the blind rivet nut as far forward as possible and do not reach into the opening.
3. Hold the start button down until the blind rivet nut has been completely threaded on; the tool stops automatically.
4. Guide the rivet into the hole provided and let the tool process the blind rivet nut by actuating the start button.
5. Release the start button after the set process has ended.
6. The tool will automatically spin off after reaching the programmed set stroke or set force.

DANGER



Risk of injury from moving parts.

The nose assembly is a moving component that heats up during the process and can cause crushing.

- Under no circumstances should you touch parts of the nose assembly during the finish boring process.

4.2.9 Stroke or force setting

Depending on the thread size and the material of the blind rivet nut and blind rivet bolt, the stroke or level of force must be adjusted.

In order to change the set stroke and set force of the tool proceed as follows:

1. Remove the battery
2. Reattach the battery
3. Tool starts up and requests that the start button be actuated.
4. Press the start button and the tool will move into the initial position.
5. Press the yellow button on the display and keep it down until the display reads „Setup“.
6. Press the yellow button again until „TAB“ appears on the display.
7. Confirm with the start button; the display now show the current stroke-force setting.
8. Change the setting using the two white display buttons, left: down/weaker right: up/stronger.
9. Select the setting by pressing the start button and either confirm using the left white display button (green check mark) or cancel using the right white display button (red cross).



On page 29 you will find a table which you can use to determine the set stroke in mm for NBLS-21 for each programme.

On page 30 you will find a table which you can use to determine the set force in kN for NBLF-25 for each programme.



The set stroke or set force is lowered using the left button.

Menu activation
See chapter 4.2.5 on page 24

The set stroke or set force is increased using the right button.

4.2.10 Setting stroke table for NBLS-21

Serial no.	Stroke	Serial no.	Stroke	Serial no.	Stroke	Serial no.	Stroke
1	0.10 mm	26	2.60 mm	51	5.25 mm	76	11.50 mm
2	0.20 mm	27	2.70 mm	52	5.50 mm	77	11.75 mm
3	0.30 mm	28	2.80 mm	53	5.75 mm	78	12.00 mm
4	0.40 mm	29	2.90 mm	54	6.00 mm	79	12.50 mm
5	0.50 mm	30	3.00 mm	55	6.25 mm	80	13.00 mm
6	0.60 mm	31	3.10 mm	56	6.50 mm	81	13.50 mm
7	0.70 mm	32	3.20 mm	57	6.75 mm	82	14.00 mm
8	0.80 mm	33	3.30 mm	58	7.00 mm	83	14.50 mm
9	0.90 mm	34	3.40 mm	59	7.25 mm	84	15.00 mm
10	1.00 mm	35	3.50 mm	60	7.50 mm	85	15.50 mm
11	1.10 mm	36	3.60 mm	61	7.75 mm	86	16.00 mm
12	1.20 mm	37	3.70 mm	62	8.00 mm	87	16.50 mm
13	1.30 mm	38	3.80 mm	63	8.25 mm	88	17.00 mm
14	1.40 mm	39	3.90 mm	64	8.50 mm	89	17.50 mm
15	1.50 mm	40	4.00 mm	65	8.75 mm	90	18.00 mm
16	1.60 mm	41	4.10 mm	66	9.00 mm	91	18.50 mm
17	1.70 mm	42	4.20 mm	67	9.25 mm	92	19.00 mm
18	1.80 mm	43	4.30 mm	68	9.50 mm	93	19.50 mm
19	1.90 mm	44	4.40 mm	69	9.75 mm	94	20.00 mm
20	2.00 mm	45	4.50 mm	70	10.00 mm	95	20.50 mm
21	2.10 mm	46	4.60 mm	71	10.25 mm	96	21.00 mm
22	2.20 mm	47	4.70 mm	72	10.50 mm	97	21.00 mm
23	2.30 mm	48	4.80 mm	73	10.75 mm	98	21.00 mm
24	2.40 mm	49	4.90 mm	74	11.00 mm	99	21.00 mm
25	2.50 mm	50	5.00 mm	75	11.25 mm	100	21.00 mm

4.2.11 Setting force table for NBLF-25

Serial no.	Force	Serial no.	Force	Serial no.	Force	Serial no.	Force
1	2.00 kN	26	8.25 kN	51	14.50 kN	76	20.75 kN
2	2.25 kN	27	8.50 kN	52	14.75 kN	77	21.00 kN
3	2.50 kN	28	8.75 kN	53	15.00 kN	78	21.25 kN
4	2.75 kN	29	9.00 kN	54	15.25 kN	79	21.50 kN
5	3.00 kN	30	9.25 kN	55	15.50 kN	80	21.75 kN
6	3.25 kN	31	9.50 kN	56	15.75 kN	81	22.00 kN
7	3.50 kN	32	9.75 kN	57	16.00 kN	82	22.25 kN
8	3.75 kN	33	10.00 kN	58	16.25 kN	83	22.50 kN
9	4.00 kN	34	10.25 kN	59	16.50 kN	84	22.75 kN
10	4.25 kN	35	10.50 kN	60	16.75 kN	85	23.00 kN
11	4.50 kN	36	10.75 kN	61	17.00 kN	86	23.25 kN
12	4.75 kN	37	11.00 kN	62	17.25 kN	87	23.50 kN
13	5.00 kN	38	11.25 kN	63	17.50 kN	88	23.75 kN
14	5.25 kN	39	11.50 kN	64	17.75 kN	89	24.00 kN
15	5.50 kN	40	11.75 kN	65	18.00 kN	90	24.25 kN
16	5.75 kN	41	12.00 kN	66	18.25 kN	91	24.50 kN
17	6.00 kN	42	12.25 kN	67	18.50 kN	92	24.75 kN
18	6.25 kN	43	12.50 kN	68	18.75 kN	93	25.00 kN
19	6.50 kN	44	12.75 kN	69	19.00 kN	94	25.00 kN
20	6.75 kN	45	13.00 kN	70	19.25 kN	95	25.00 kN
21	7.00 kN	46	13.25 kN	71	19.50 kN	96	25.00 kN
22	7.25 kN	47	13.50 kN	72	19.75 kN	97	25.00 kN
23	7.50 kN	48	13.75 kN	73	20.00 kN	98	25.00 kN
24	7.75 kN	49	14.00 kN	74	20.25 kN	99	25.00 kN
25	8.00 kN	50	14.25 kN	75	20.50 kN	100	25.00 kN

4.2.12 Spinning off

If an incorrect nut or screw is spun on or it is not currently needed it can easily be spun off.

Clicking the yellow display button will make the notification „BACK“ appear in the display. The tool is ready to spin off the blind rivet nut or blind rivet bolt next.



To do this, hold it firmly at the front.

After spinning off the tool will automatically go back to its normal operating state.



DANGER

Risk of injury from moving parts.

The nose assembly is a moving component that heats up during the process and can cause crushing.

- Under no circumstances should you touch parts of the nose assembly during the lowering process.

4.2.13 Tool tilted or blocked

If the tool or the blind rivet nut becomes tilted and stuck there is an option to release it on the back of the tool using a size 4 mm Allen key after the battery has been removed. To do this, place the Allen key in the opening provided (1) and turn it counter-clockwise. Always keep a firm hold on the tool.



DANGER

Risk of injury from rotating / falling parts.

If the Allen key remains in the tool, it creates significant risk of injury.

- Prior to operation ensure that the Allen key has been removed.

4.2.14 Overload

In order to avoid damages as a result of excess temperatures during continuous operation it is important to observe sufficient break times during the installation process.

If the tool should go into an automatic shut-down (TEMP FET) as a result of excess temperatures the break times should be reviewed and adjusted.



Continued work is only possible after a cooling off period in order to protect the tool from lasting damage.

4.2.15 Standby and Shut-down mode

After approx. 10 minutes without actuation → the tool switches to standby mode
The tool starts up again by briefly tapping on the start button.

After another approx. 30 minutes without actuation → automatic shut-down
Start-up by pressing the start button if the battery has not yet been removed or right after sliding the battery back on. Both are only possible if the battery has sufficient charge capacity.



NOTE

In the case of longer period of non-use (longer than 3 hours) the batter must be separated from the tool in order to prevent deep discharge of the battery.

4.2.16 Charge state of the battery



NOTE

The tool will only start if the battery has sufficient charge capacity.

When fully charged, the battery will display the charge state on the display on the left side as a green battery symbol. As the battery voltage decreases the colour of the symbol will change to yellow and then red. When it reaches red an additional warning signal will sound, the display will read „warn batter“ and recommend changing the battery. After several additional installations, the tool will no longer start and the display will read „batt low 2“ with a crossed through battery. The battery must then, at the latest, be changed (chapter 4.2.1 on page 22).



4.2.17 Display notifications

Display notification	Meaning	Measure
	Undervoltage warning, Battery empty (batt low 1)	Change / charge battery
	Battery empty (batt low 2) Tool is not working anymore	Change / charge battery
	Excess temperature „FET“	Let the tool and battery cool down
	Hardware error (Defect on motor, Sensor, etc.)	Tool must be serviced
	Thread pin must be replaced	Replace thread pin
	Maintenance service counter	Tool must be serviced
	Complete overhaul service counter	Tool must be serviced



NOTE

In cases of serious faults corresponding notifications will appear in the display. The tool must be sent to the manufacturer.

4.3 HST-Tool-Manager

This excerpt shows only the most important functions for this tool type. A complete guide for the HST-Tool-Manager is available for you to download on our website.

Download the current version of the HST-Tool-Manager in the downloads area on the HS-Technik website **www.hst.group**.

NOTE

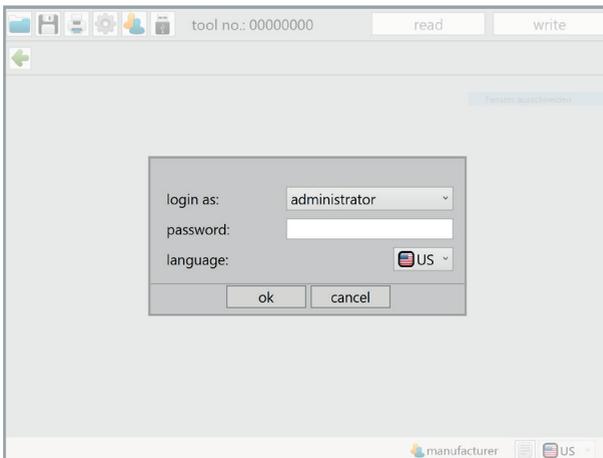


Always use the most current version of the HST-Tool-Manager from the website. The HST-Tool-Manager is backward compatible, i.e. it can also read and process older tool versions. If an update of your tool is necessary the HST-Tool-Manager will inform you.

1. Start the HST-Tool-Manager by double clicking the HST-Tool-Manager icon:



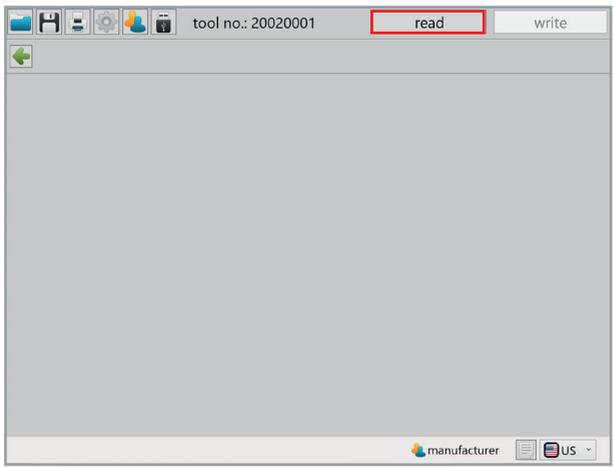
2. Log-in with the required User, a list of the passwords can be requested from HS-Technik (support@hst.group).



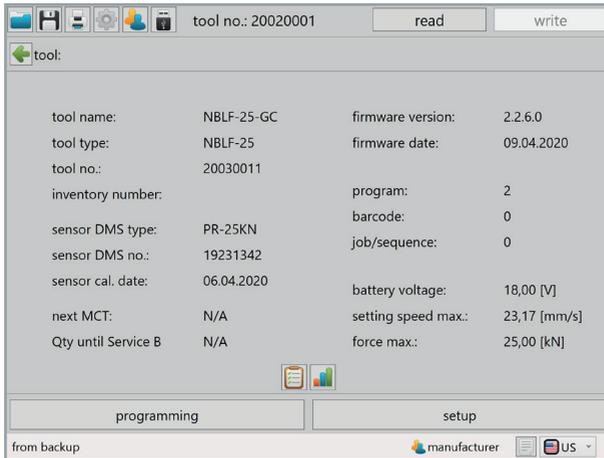
3. Insert the USB cable included into the Mini-B socket at the bottom of the tool and the opposite end into an open USB interface on your laptop / tablet / PC.



4. Click on the „read“ button on the top right.

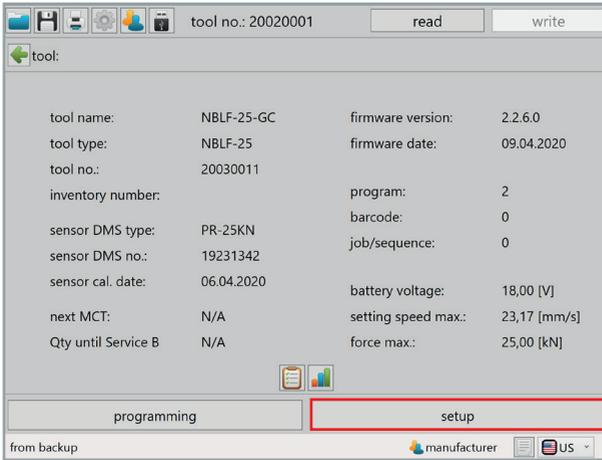


5. The HST-Tool-Manager will now read the settings from your tool and will display its progress using a green bar. At the end the tool overview will be displayed.



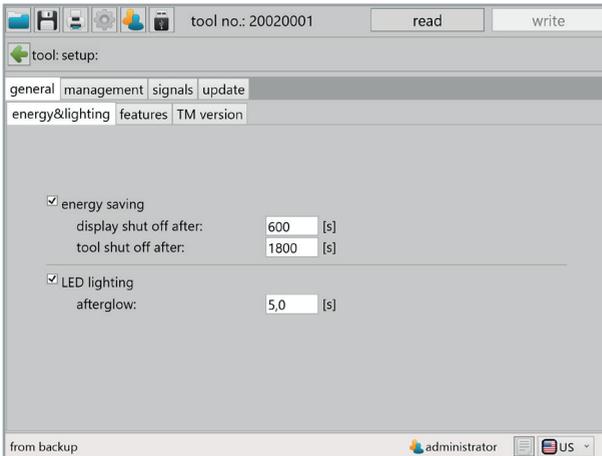
4.3.1 Setup

Clicking on setup takes you to the tool setup menu. Here, for example, the display, LED display and energy savings settings can be parametrised.



4.3.2 General → energy & lighting

Here you can parametrise the energy saving options and the LED lighting.

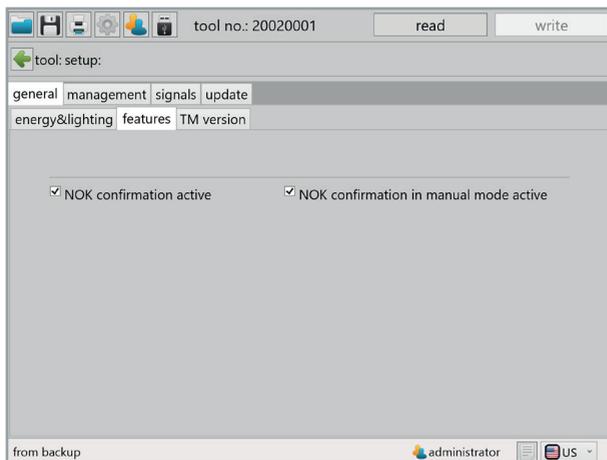


„energy saving“	The energy saving options can be activated or deactivated with the check-box.
„display shut off after“	Time in seconds without action after which the OLED display of the tool will switch off and the screen saver will activate. Default value: 600 seconds (10 minutes)
„tool shut off after“	Time in seconds without action after which the tool turns off. Default value: 1,800 seconds (30 minutes)
„LED lighting“	The LED lighting can be activated or deactivated with the check-box.
„afterglow“	The amount of time the LED lighting continues to glow after completion of the work process.

4.3.3 General → features

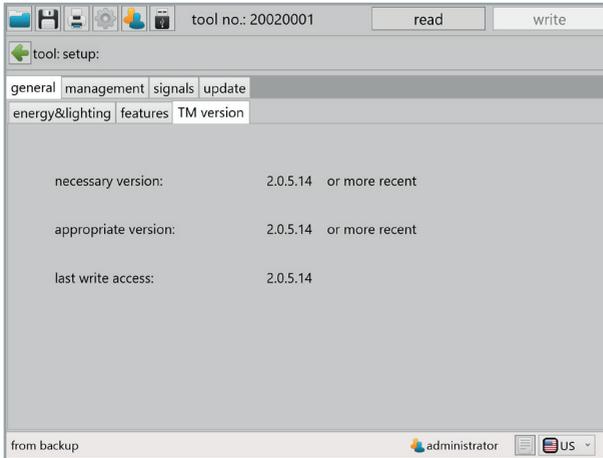
The NOK confirmation can be activated and deactivated in the features tab using the yellow display button.

If the check-box is selected the NOK confirmation function is active (default).



4.3.4 General → TM version

The TM version will display the HST-Tool-Manager version required for this tool, at minimum, the version intended for the application, and the version last written on the tool.

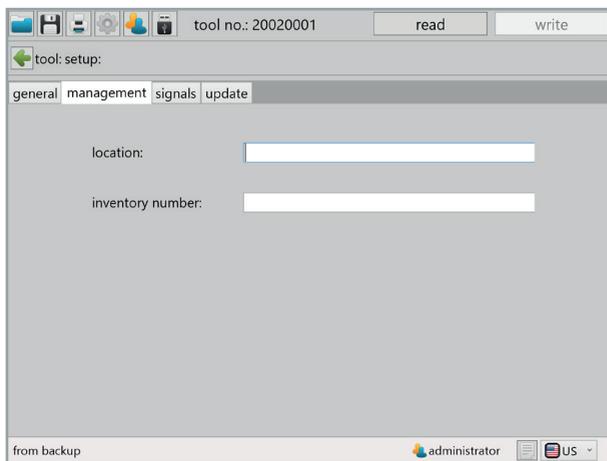


4.3.5 Management

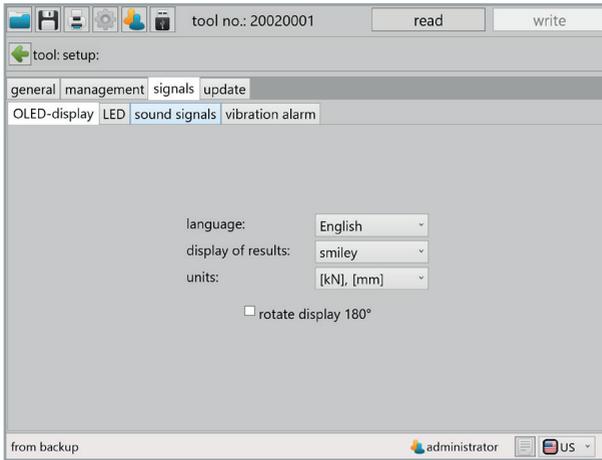
The location on the management tab and the inventory number of the tool can be saved under administration.

Location max. 20 characters

Inventory number max. 40 characters



4.3.6 Signals → OLED-display



„language“

Select the language on the OLED display, German or English
Default: English

„display of results“

Select the display of results on the OLED display. **Smiley** displays the result as Smiley with the process values as small, **Force** displays the force reached as large (for NBLF-25), **Stroke** displays the stroke value reached as large (for NBLF-21), **Smiley large** displays the result as Smiley without process values.
Default: Smiley large

„units“

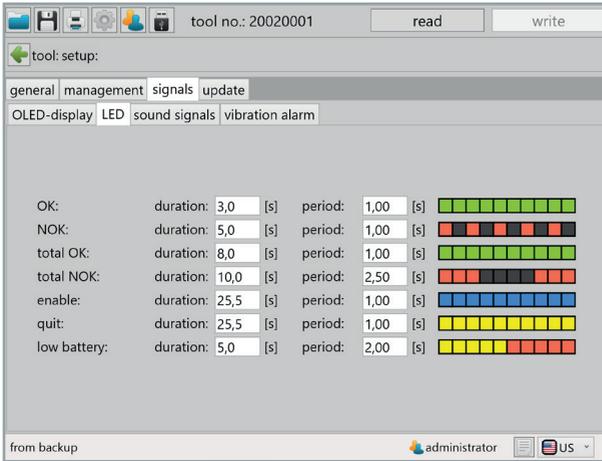
Selection of the units on the OLED display, SI units or imperial units
Default: SI units (kN and mm)

„rotate display 180“

Selecting the check-box turns the display on the OLED display by 180°.

4.3.7 Signals → LED

The LED displays around the OLED display can be parametrised under the LED tab. The colour of the display can be changed by clicking on the coloured square.



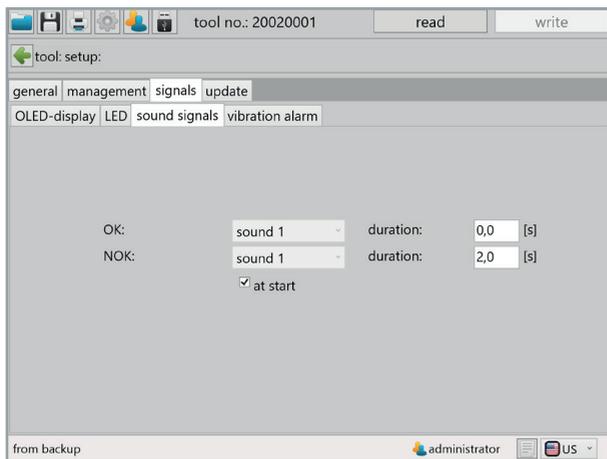
„duration“

The duration of the display in seconds, max. 25.5 seconds.

„period“

The duration of the sequence of the 10 parametrisable indicator fields. Period 1.00 seconds means that the 10 fields will be shown one after another within 1.00 seconds.

4.3.8 Signals → sound signals



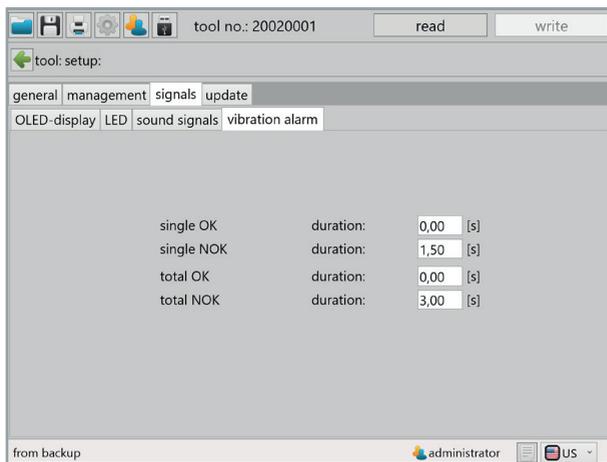
„duration“

For the duration the time of the sound signal for OK and NOK results will be parametrised in seconds, max. value 3.0 seconds.

„at start“

When the check-box is selected a signal will sound when the tool starts.

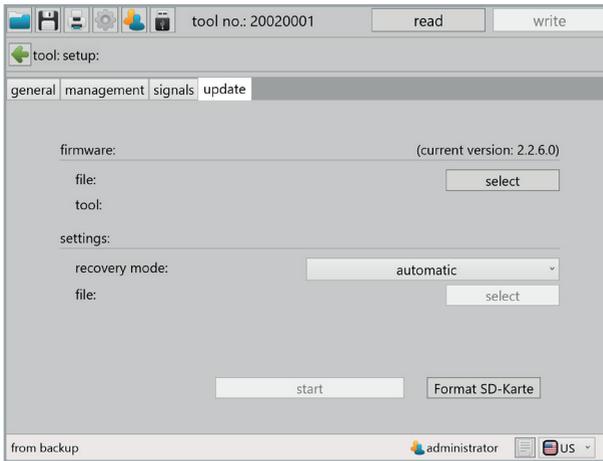
4.3.9 Signals → vibration alarm



„duration“

For the duration the time of the vibration for OK and NOK results will be parametrised in seconds.

4.3.10 Update



Select:

Click on select and find the .upd file provided by HS-Technik GmbH. Click „start“.

The progress of the update will be displayed using a status bar and confirmed at the end with „done“. The tool is now up-to-date with the current firmware and has the same settings as prior to the update.

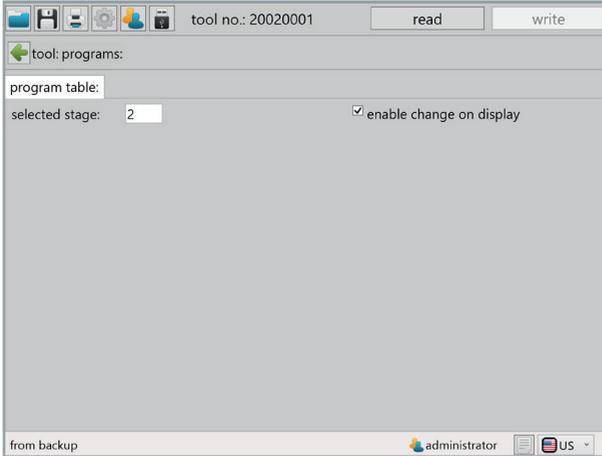


NOTE

Do not pull out the USB cable during the update process!

4.3.11 Programming

Clicking on „program“ takes you to the program settings menu.



„selected stage“

The selected stage determines the programme of the table which is active. See programme table page 29 - 30.

„enable change on display“

This function activates and deactivates the setting of the programme using the buttons under the OLED display. If the function is active (checkbox selected) the programme can be selected or changed as described in Chapter 4.2.9.

4.4 Maintenance and servicing

Apart from the regular cleaning and the inspection and maintenance of the threaded mandrel the battery blind riveting device is largely maintenance-free.

DANGER



Risk of injury as a result of improper handling!

Improperly executed work can lead to hazards.

- Repair, maintenance and care of riveting tools must be completed professionally.
- After the work, no risk for the operator should exist during proper use.
- The operator may only conduct the work described here.

4.5 Cleaning



NOTE

Observe the following information for cleaning your tool. Incorrect cleaning solutions or improper procedures when cleaning can lead to damage to the riveting device.

4.5.1 General information

Do not use any degreasing or corrosive cleaning solutions and no water. Do not spray any cleaning solutions, solvents or easily flammable materials into the openings of the housing! Clean the battery contacts and the battery connection on the tool with a cloth, cotton swab and a little alcohol when necessary.



4.5.2 Cleaning / replacement of the threaded mandrel

Loosen and remove the mouthpiece (1).

In order to clean or replace the threaded mandrel (2) pull back the silver lock ring (3) and loosen the mandrel by turning.

If the housing can not be loosened by hand it can be loosened using two SW24 keys.

These components can be cleaned using a wire brush or a cloth. Any shavings should be removed. Then check the mandrel and replace if necessary.

Then reassemble the device in reverse order. While doing so ensure that the threaded mandrel is again locked into place flush with the lock ring.



4.5.3 Machine capability test (MCT)

We recommend an annual machine capability study for high quality standards and a long life span. This can be combined with maintenance and inspection of the overall tool.

The machine capability study can be completed by HS-Technik GmbH.

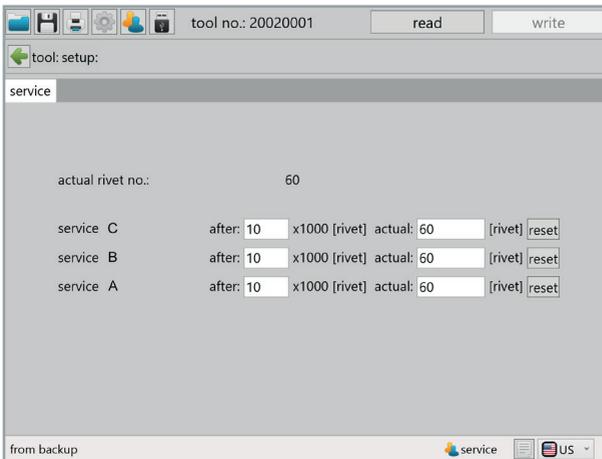
4.5.4 Service interval counter

The tool has an internal service interval counter which will inform the user of an inspection due. In this case you will receive the following notification in the display:



The service counters can be parametrised with the HST-Tool-Manager under the „Service“ user. The respective value entered will be multiplied by 1,000, i.e. when entering 10 the service notification will appear on the display after 10,000 sets. If you enter 0 the function is deactivated.

The recommended service intervals are saved in the tool ex works. We would be happy to inspect the tools for you after reaching the service interval.



4.6 Force / power setup values

According to the thread size and material of the blind rivet nut and blind rivet screw the force setup values need to be adjusted.



NOTE

The following table is based on experience values.

Thread	M3	M4	M5	M6	M8	M10
Working time	5 s	5 s	5 s	5 s	5 s	5 s
Idle period	10 s	15 s	20 s	30 s	60 s	75 s
Working condition	1:2	1:3	1:4	1:6	1:12	1:15
Max. processes per hour	240/h	180/h	144/h	102/h	55/h	45/h
Max. processes per day	1.680/day	1.440/day	1.152/day	816/day	440/day	360/day

5 Storage

Observe the following information when storing riveters, chargers and batteries:

- Remove the battery when you are not using the riveting device.
- If you will not be using the battery for a longer period of time it should be stored, fully charged, in a dry, dust-proof area.
- Store the riveting device and charger in a dry environment protected against splashing water.
- Store the riveting device and charger in a well ventilated space and protected against exposure to dust.
- Ensure that the storage environment is free of aggressive chemicals and vapours.

6 Technical data

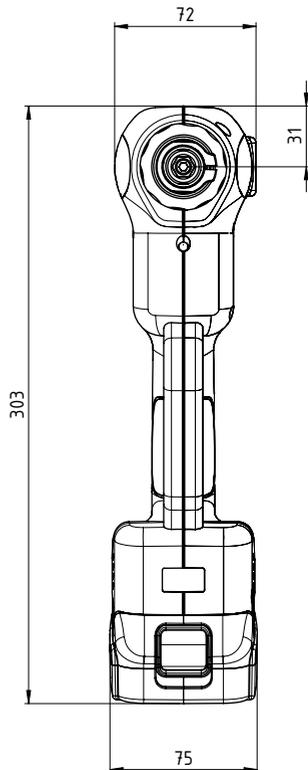
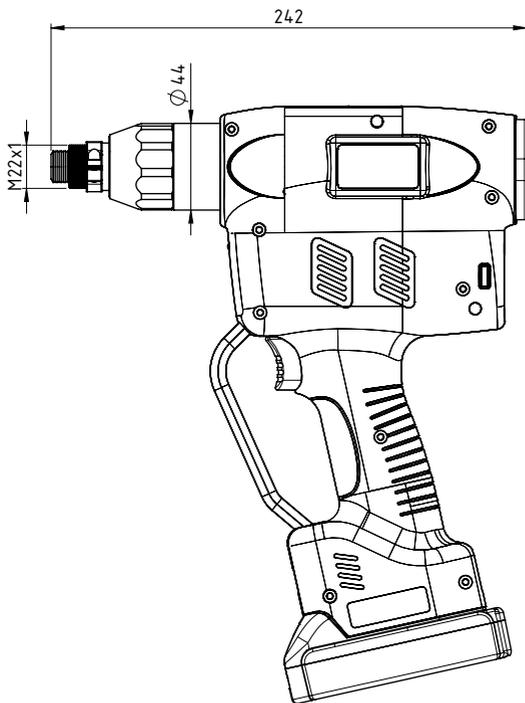
Description	NBLS-21	NBLF-25
Operating voltage	18 VDC	
Device stroke	21 mm	21 mm
Setting force	max. 25 kN	
Setting speed	max. 23 mm/s	
Noise emissions (L_{pA})	< 70 dB(A)	
Measurement uncertainty (K)	3 dB(A)	
Vibration (a_{rw})	< 2.5 m/s ²	
Measurement uncertainty (K)	1.5 m/s ²	
Operating altitude	< 2000 mNN	
Operating temperature	10 - 40 °C	
Storage temperature	0 - 50 °C	
Dimensions (L x W x H)	212 x 73 x 270 mm	
Weight without battery & nose assembly	approx. 2.0 kg	
Weight with battery 2.5 Ah	approx. 2.3 kg	
Weight with battery 5.0 Ah	approx. 2.6 kg	
HST-PR-1825 battery	Li-Ion, 18 V, 2.5 Ah	
HST-PR-1850 battery	Li-Ion, 18 V, 5.0 Ah	
HST-PR-2830 charger	220 - 240 VAC, 50 - 60 Hz, 65 W	
Blind rivet nuts	M3 - M10	
Blind rivet bolts	M3 - M8	

The values given for noise emissions and vibration were measured using a standardised test method and can be used for comparison with other power tools. They can also be used for a preliminary estimate of the load.



NOTE

The actual emissions can differ from the above information depending on the type and manner of use of the tool and, in particular, depending on the type of work-piece.



Specifications in mm
Not shown to scale

7 Troubleshooting and Fault repair

The NutBee by HS-Technik is a very stable and long-lasting tool.

Please contact HS-Technik GmbH if unknown errors occur.

Repairs:

Telephone: +49 (0)7628 / 91 11-0

E-mail: repaircenter@hst.group

Programming:

Telephone: +49 (0)7628 / 91 11-0

E-mail: support@hst.group

Please note the following information:

- Serial number of the riveting device (see battery compartment of the device)
- What error has occurred?
- Display
- When did the error first appear?
- What have you done to fix the error?

We reserve the right to make errors, technical changes to our products and changes to the delivery program in the course of further development.

CE Declaration of conformity

We, the manufacturer, hereby declare that the named tool complies with the essential protection requirements of the listed EU directives regarding design and construction type.

The prerequisite for this is the intended use of the tool as well as compliance with the installation and commissioning instructions.

If the product or its accessories are modified without our consent, this declaration becomes invalid.

Tool description: Programmable cordless blind riveting tool

Type designation: NBLx-xx

Manufacturer: HS-Technik GmbH
Im Martelacker 12
D-79588 Efringen-Kirchen

Directives: 2006/42/EU
2014/30/EU

Applied standards: DIN EN ISO 12100 2011-03
EN 62841-1:2015+AC:2015, EN 62841-2-2:2014
EN 61000-6-3:2007+A1:2011+AC:2012
EN 61000-6-2:2005+ AC:2005
EN 55014-1:2006+A1:2009+A2:2011
EN 55014-2:1997+ AC:1997+A1:2001+A2:2008

HS-Technik GmbH
Im Martelacker 12, D-79588 Efringen-Kirchen

March 2026



Florian Hanke
CEO



Notes

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Internet: www.hst.group

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We reserve the right to make structural changes. Our construction suggestions are not binding!