



turbocut

CAPTIVE BOLT STUNNERS

Captive bolt stunner

Caliber 9 x 17 - centerfire

Caliber 6.8 x 18 - rimfire

Blitz model series:

Blitz-ESS
(Easy Safe Strong)



DE-24-MARLIV18-PTB01

translated operating instructions

Version: May 2026



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PTB1110

Foreword

Please read these translated operating instructions (version: 05/2026) and the safety instructions for safe and correct use **carefully** and thoroughly **before using the device for the first time**.

Always keep these operating instructions safely with the captive bolt stunner device.

The captive bolt stunner must only be passed on to other, appropriately trained persons if these operating instructions are included.

You will find several translations of these operating instructions as well as further information on our homepage **www.turbocut.de**

You will find several translations of this instruction manual as well as further information on our homepage www.turbocut.de

For various translations and further information, please scan this QR code:



Scope of supply

Please check the delivery for completeness and damage.

Should parts be missing or defective, please contact your supplier immediately.

Quantity	Designation
1 x	Blitz-ESS captive bolt stunner (wrapped in oiled paper)*
1 x	German original operating instructions
1 x	Cleaning set (cleaning rod, large and small brush)

*) Optionally available on request in a case incl. cartridges and cleaning oil

Manufacturer:

turbocut Jopp GmbH
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1. General information

In this text, the term "the device" refers in all instances and exclusively to the respective variant of the Blitz-ESS captive bolt stunner.

SIGNAL WORDS AND THEIR MEANINGS

Warning level	Potential consequences
 Danger	Death or severe, irreversible injuries
 Warning	Death or severe, irreversible injuries
 Caution	Slight or minor, reversible injuries
Note	Property damage

1.1 Intended use

The Blitz-ESS captive bolt stunner is intended exclusively for the stunning of animals for slaughter or for emergency killing of sick or injured animals. Any use other than this is considered improper use.

Regulation 1099/2009 (EC) of the Council on the protection of animals at the time of killing and the applicable national regulations, such as the animal protection/slaughter regulation (TierSchlV), must be observed by the operator.

1.2 Pictograms

	 	 	
Caution	Hot surface / warning of explosive atmosphere	Wear hearing protection / use hand protection	Observe the operating instructions

1.3 Identification details

Location of the identification details on the device:

Headpiece	Production year, serial number
Sleeve	Manufacturer, model series, production year, approval mark, serial number, product name
Intermediate piece	Ammunition type, model series, approval mark

1.4 Transferring the information

Copy the respective information into the purchase certificate on the last page of these operating instructions and always quote this when making inquiries or when submitting for repeat testing.

This information serves as certification for inspections by the veterinary office.

2. Safety instructions

2.1 Basic safety information / official safety regulations

The relevant national and international regulations should be observed. Failure to comply with the regulations or legal provisions and accident prevention regulations can result in personal injuries, injuries to others and property damage. Observe the safety instructions in these operating instructions at all times.

For the operation of the Blitz-ESS captive bolt stunner, the respective valid version of the accident prevention regulation "Working with captive bolt stunners" (DGUV regulation 56) from the employers' mutual insurance association must be precisely observed and taken into account.

The device and the blank cartridges must be stored safely, protected from unauthorized use.

2.2 Improper use



It is not permitted to carry out any modifications to the device and/or the blank cartridges. It is forbidden to operate the captive bolt stunner in potentially explosive atmospheres or flammable atmospheres.

Observe the information on operation, maintenance and care provided in these operating instructions.



Never point the device towards yourself or other persons.

Do not press the device against your hand or other parts of the body.

Ensure that the device is not fired into the air.

2.3 Latest engineering practice

The Blitz-ESS captive bolt stunner has been constructed in accordance with the latest engineering practice. Any device can still present a hazard if handled improperly or used for purposes other than its proper intended purpose.

If the operating instructions as well as the operational specifications and the accident prevention regulations are complied with, the captive bolt stunner is operationally safe. Nevertheless, there is potential for danger due to its function.

This includes:

- » Risk of injury to fingers and hands
- » Hearing damage due to noise in the event of noise emissions greater than 75 dB(A)
- » Risk of injury due to negligence regarding the use of personal protective equipment during operation of the machine, during maintenance and repair work and during cleaning and disinfection

Additionally, despite all precautionary measures taken, non-obvious residual risks remain. The residual risks can be minimized if you observe the safety instructions as well as the operating instructions as a whole.

2.4 Appropriate use and environment



Ensure there is good lighting (observe workplace regulations). **The device must only be used when held in the hand.**

Ensure that you have a secure footing and that you are well balanced. Avoid unusual postures. Keep other people away from the working area. Keep the sleeve dry, clean and free of aggressive oil and grease.

Clean the device every working day.

2.5 General hazards caused by the device

The device must only be used when in flawless condition.

Never leave a loaded device **unsupervised**.

Always unload the device before cleaning and maintenance work as well as before storage.

Load and cock the device only immediately before stunning an animal.

Unused cartridges and devices that are not currently in use must be stored in the original packaging, protected from moisture and excessive heat.

The device and the cartridges are to be stored such that they are secured against unauthorized use.



2.6 Thermal hazard

Do not exceed the stipulated max. firing frequency of **17 shots per hour**, as otherwise this could result in burns. Do not dismantle the device when it is hot.



2.7 Cartridges that fail to fire

If a cartridge fails to fire, wait at least 30 seconds before removing the cartridge. Hold the device in a secure and safe position. After 30 seconds, remove the cartridge from the device and dispose of it properly.

2.8 Requirements for the user and personnel restrictions

The device is intended for use by adults and professional users.

It is forbidden to pass the device on to minors.

Butchers' trainees are an exception to this. **Keep the device away from children and never leave it unsupervised.**

The device must be operated and maintained exclusively by authorized and trained personnel. **A corresponding certificate of competence must be available.**

Always pay careful attention when working with or on the device. Work deliberately and do not use the device if you are not able to concentrate or if you are distracted. Stop working if you feel unwell. Observe the animal closely and be prepared for the animal moving around to avoid you or the device. **Before stunning, the animal must be sufficiently and securely restrained.**

2.9 Personal protective equipment



The user and any other persons who are in the immediate vicinity must wear hearing protection while the device is being used. Suitable protective gloves are also recommended, especially in cool working environments.

2.10 Residual risk

Despite all precautions, residual risks remain that pose a danger to the user.



When the captive bolt stunner is triggered, it releases dangerous gases containing carbon monoxide and lead, which can be inhaled. When using the device, ensure adequate ventilation and proper extraction at the workplace.

The risk of lead poisoning can be avoided by using lead-free cartridges.

Deposits such as gunshot residue or powder dust must be removed immediately after use.

3. Description

The Blitz-ESS captive bolt stunner is subject to the EC Machinery Directive 2006/42/EC Annex 1, Point 2.2.2 "Portable fixing and other impact machinery."

After igniting the propellant charge in the cartridge receiver, the bolt accelerates, projects a defined distance out of the sleeve and, after stunning, is withdrawn back into the housing, after which it remains in the device.

Only caliber 9 x 17 centerfire cartridges or caliber 6.8 x 18 rimfire cartridges with CIP approval must be used as propellants.

Current recommendations on the use of cartridges can be found online at www.turbocut.de

Functional principles of the captive bolt stunner

The energy from the blank cartridge is transferred to the bolt, accelerating it so that it penetrates the brain of the animal through the skullcap. The integrated bolt spring and the rubber buffer brake the bolt back to a standstill and push it back into the device.

To achieve optimum results and to protect the device, the energy of the blank cartridge is tailored to the animal for slaughter (see chapter 4 – Blank cartridges).

The Blitz-ESS captive bolt stunner is designed for animals with a maximum slaughter weight of 650 kg.

For heavier animals, we recommend a device with a higher bolt projection length, e.g. the Bullen Blitz.

The Blitz Schlag is recommended for stunning poultry, rabbits and hares with a live weight of 5 kg or more.

You will find further details regarding the Blitz-ESS captive bolt stunner in chapter 10 – Technical data

You will find more information at www.turbocut.de
For additional information, please scan this QR code:



4. Blank cartridges and their storage

The Blitz-ESS captive bolt stunner has been specially developed for centerfire and rimfire cartridges ("crimped" and sealed, caliber 9 x 17 and 6.8 x 18) – **only these cartridges with CIP M approval must be used.**

To make optimum use of the performance of the device, we recommend using 9 x 17 MaxxTech and Fiocchi cartridges or 6.8 x 18 Hilti cartridges.

The blank cartridges are available in different strength levels for the different types of animals to be slaughtered. Particular care must be taken with the respective selection based on the type and size of the animal.

The selection of the correct charge strength for the respective animal ensures species-appropriate stunning and helps to reduce the wear on the bolt spring and rubber buffer. The printed information, the color of the label and the color of the cartridges indicate the charge strength of the blank cartridges.

See the following table for cartridge recommendations:

Cal. 9 x 17	Strength / energy level	Model series	Type of animal for slaughter	Cal. 6.8 x 18
Green	Weak / 3	Blitz-ESS	Piglets from 5 kg to 30 kg, sheep and goats under 1 year	Blue
Yellow	Medium / 4	Blitz-ESS	Sheep and goats (from 1 year), horses, fattened pigs, cows (crossbreed under 500 kg, meat breed under 450 kg)	
Red	Very strong / 6	Blitz-ESS	Medium oxen and young bulls	Red
			Cows up to 650 kg	

Proper operation of the captive bolt stunner is only guaranteed if blank cartridges with CIP M approval and original spare parts are used.

Storage

The blank cartridges must be stored in a dry location and protected from unauthorized use and manipulation.

They must be protected from heat and kept away from naked flames and other ignition sources.

Do not store them together with flammable or other materials that increase the likelihood of hazards. The national legal provisions, e.g. DGUV regulation 56 (as amended), are to be observed.

The blank cartridges must be stored exclusively in the original manufacturer's packaging.

Storage temperature	Recommended storage temperature	Relative humidity
0°C to +30°C	+20°C	max. 60%

5. First use

The German Regulation on the protection of animals at the time of killing stipulates that the correct function of the captive bolt stunner must be checked at least once before the start of work every day.

The device is factory-fitted for caliber 9 x 17.

At the customer's request, it can be converted to rimfire caliber 6.8 x 18.

5.1 Checking the device

Recommended before and after each use.

Ensure that there is no propellant charge cartridge in the cartridge receiver. The active parts such as the bolt, bolt spring or striking pin must not exhibit any corrosion.

Check the position of the bolt. To do so, hold the device vertically with the exit opening pointing downwards. The bolt must be at least 4 mm inside the sleeve and must hold itself in place there (see chapter 7 – Troubleshooting).

Should the bolt stand back less than indicated or even be flush or protrude from the sleeve, the bolt cannot be freely accelerated and the performance of the device is reduced. In this case, the bolt spring and the rubber buffer must be replaced.

Check the rubber buffer and the bolt spring for wear before use. The lock must be screwed in hand-tight and flush with the sleeve.

Never use the device without a rubber buffer or a bolt spring.

5.2 Alternative methods

Test the device with a test block and/or a speed measurement device and document this test.

You can also find further advice in our video guide on checking for wear on our website or directly via this link:

You will find more information at www.turbocut.de

For additional information, please scan this QR code:



6. Operating the device

Read through these operating instructions carefully before first use and use the sketches found in the appendix for better understanding.

Use hearing protection (user and persons in the vicinity). Noises that are too loud can damage your hearing.

Please check that the captive bolt stunner is complete and that it is functioning properly and operationally capable before use.

Operating the device without a rubber buffer or a bolt spring is not permitted.

Never point the device towards yourself or other persons.

Watch out for sudden, evasive movements by the animal.

It is absolutely mandatory that the animal be sufficiently and securely restrained according to the applicable (animal protection/slaughter) regulations.



6.1 Loading

Unscrew the headpiece counter-clockwise, insert a blank cartridge (caliber 9 x 17 or caliber 6.8 x 18) into the intermediate piece with the cartridge collar (thick shoulder on the cartridge) facing upwards. The "crimped" cartridge tip points in the direction of the bolt. Screw the headpiece on hand-tight in clockwise direction. **The opening of the annular spring must lie opposite the trigger.**

The device is equipped with a trigger lock.

When the headpiece is screwed on, the trigger is automatically pushed into the cocking position. To secure it, the locking ring must be twisted. Further information on this can be found in chapter 13 – Appendix.

6.2 Unlocking and cocking

For cocking, the trigger lock must be twisted so that the trigger can be fully depressed. Pull the striking pin out at the rear end until the trigger can be heard latching into place.

The captive bolt stunner is now ready to fire.



When loading the blank cartridge and cocking the striking pin, the device must be held such that it is not pointed towards the operator's own body, body parts or other people.

The captive bolt stunner must be cocked only immediately before firing (actuating the trigger).



The device must not be held by the muzzle. The bottom end of the device (where the bolt emerges) must be free and must not be held against the body or covered by body parts – even when looking for potential faults.

If a loaded captive bolt stunner is not to be fired immediately, it must be unloaded.

6.3 Firing

To fire the device, it must be held securely with both hands. The guiding hand is close to the trigger lock, the holding hand should be underneath. Then position the lock quietly and carefully but with sufficient pressure against the skull of the animal and trigger the device quickly. The shot is fired by pressing on the unlocked trigger with one or two fingers – press all the way down. The bolt penetrates the skull and stuns the animal.

Holding captive bolt stunners in one hand can lead to stunning failures or misses.



The figures in chapter 6.5 show the positions where the captive bolt stunner must be placed for the individual types of animals for slaughter.

The device is to be applied to the optimal stunning point of the skullcap for the specific animal, as close to perpendicular as possible.

In the case of fattened pigs, the captive bolt stunner should be applied at a downwards angle of 25° to the vertical line. The optimal strike point prevents the bolt from becoming jammed in the skull.

Shots into the air must be avoided.

Always fire test shots only into adequately strong and firmly mounted wooden supports (e.g. soft square timber min. 10 cm x 10 cm).



In the event of ammunition failing, the triggering mechanism must be actuated again. If there is still no ignition, please wait around 30 seconds; then unscrew the headpiece completely and remove the ammunition carefully by means of the ejector. Cartridges that have not been fired must be collected and stored until disposal.



The striking pin must not be cocked when the headpiece is screwed off.

Testing the striking pin

With the headpiece unscrewed, ensure that the tip of the striking pin does not project out of the headpiece, as otherwise this could result in premature firing when it is screwed back on again. If the striking pin is defective, it can only be replaced as a complete unit. To do so, order a complete striking pin set.



Maintenance work must be carried out exclusively by the manufacturer or their authorized representatives, unless the user is installing only parts designated as original spare parts by the manufacturer (see chapter 13.2 – Accessories and spare parts lists) within the scope of their maintenance work.



6.4 Removing the fired blank cartridges

After unscrewing the headpiece, the blank cartridge can be easily removed using the ejector. The ejector is gripped with one hand at the recess and pulled upwards. The cartridge protrudes and can be removed. The ejector is then pushed back again. Further information on this can be found in chapter 13 – Appendix.

The cartridge receiver should then be immediately cleaned of any powder residue and other contaminants with the small brush.

6.5 Positioning for various animal breeds

For cows, the captive bolt stunner is to be positioned 1-3 cm above the center of the intersection point center horn / imaginary horns to center eye. The older the animal, the higher the position. The device is to be applied vertically to the forehead (at right angles).



Meat breeds, crossbreeds, large sows and boars (breed animals) as well as animals with high live weights of more than 650 kg must always be stunned with the Bullen Blitz.



Positioning and angle for **animals for slaughter up to 650 kg**:

For animals with horns, the device is to be positioned approx. 1-3 cm above the imaginary intersection point from the center of the horns to the center of the eyes.

For animals without horns, the device is to be positioned according to the imaginary horns.

Where both halves of the skull are connected in the middle of the forehead, a ridge-shaped bulge can form on the outside in bulls of meat breeds and crossbreeds as well as in large sows and boars. Only if this ridge is visible on the outside or is noticeable during positioning, the captive bolt stunner should be positioned to the side of it (approx. 1 cm to the right or left of the center line).



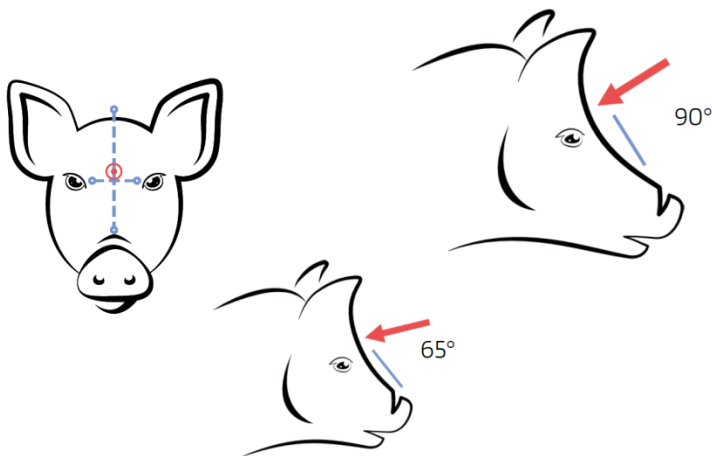
It should be aimed slightly towards the center.

For cows, the captive bolt stunner is to be positioned vertically to the forehead surface. Press the captive bolt stunner firmly on.

Should there be strong hair growth on the animal's forehead, as is common in certain breeds, this hair is to be removed before stunning.

For **large sows and boars** with a steep forehead / snub nose, position the captive bolt stunner vertically. The device is to be positioned centrally, approx. 2-3 cm above the imaginary connecting line of the eye centerpoints (< 150 kg = 2 cm above; > 150 kg = 3 cm above).

In the case of **fattened pigs** with cuneiform heads, the device is to be positioned approx. 1 cm above the line of the eye centerpoints, toward the outer ears. The application angle is approx. 65 degrees.

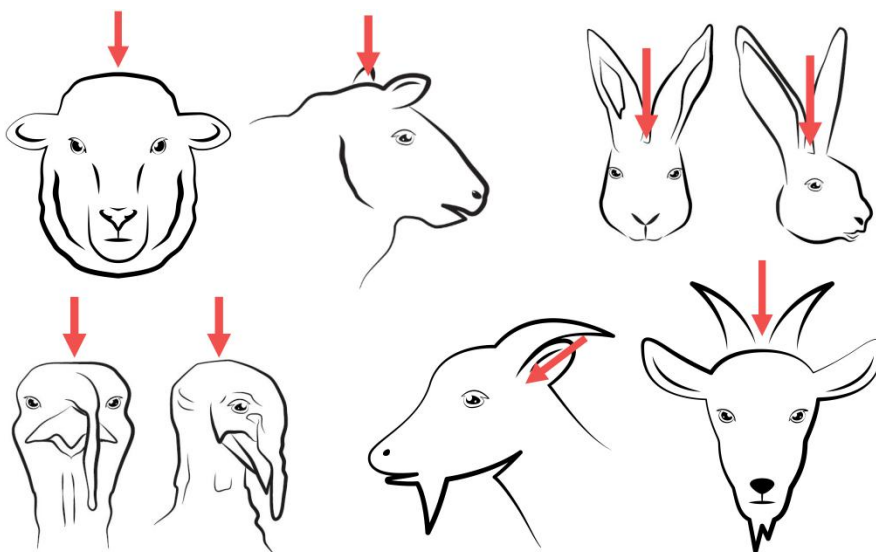


Note: The use of captive bolt pistols for pigs is a replacement method and thus must be used only if the approved stunning method fails and in home slaughtering.

Horses are to be shot vertically to the forehead, approx. 1 cm above the intersection point, center eyes to center ears.



Goats and sheep with horns are to be shot directly behind the horns or the bone ridge. In the case of unhorned sheep, the device is to be positioned at the highest point of the skull. The shot must be fired straight downward.



It is important that the head be securely restrained / held in place. This is done by supporting the lower jaw with the hand or pressing the neck against a wall.

The use of a captive bolt pistol alone is not a method for slaughter. Only if vital brain stem areas are also destroyed (breathing, blood pressure, heart rate) can this lead to the death of the animal. To ensure certain death, the animal stunned by the shot must be bled within 60 seconds after the shot.

The aim of the shot is to properly and humanely stun the animal before the bleeding cut.

Adequate stunning can be achieved only if the captive bolt stunner is applied accurately. The animal must be restrained to prevent it from moving; therefore, the animal's head in particular must be moved into and fixed in such a position that the captive bolt stunner can be applied and operated without any problem.

The entire process should be carried out as calmly as possible to spare the animal stress and suffering.



6.6 Signs of a good stunning effect

- » Immediate collapse
- » In the numb phase, head extended, legs pulled under the stomach, then slow stretching, no attempts to stand up
- » In the subsequent convulsion phase, uncoordinated twitchy movements
- » Eyes rigid, pupils dilated and remain wide
- » No eyelid and corneal reflex (no blinking when touching the eyelashes or cornea)
- » No breathing movements detectable on nose, mouth or body

After 60 seconds:

- » No movements
- » Tongue hangs out of the mouth
- » Tail and ears limp
- » Straight dorsal line (in the case of suspended bleeding)

**For further information, we recommend the website of
BSI Schwarzenbek:**

<http://www.bsi-schwarzenbek.de/neues-links-2/>



7. Troubleshooting

CARTRIDGE DOES NOT FIRE

Wait for approx. 30 seconds, then carefully open the headpiece by loosening it counter-clockwise by one turn. Then remove the non-fired cartridge and replace it with a new one.

Before inserting a new cartridge, check the striking pin.

The tip of the striking pin, in particular, could be deformed or contaminated.

However, most often the cause of the fault lies with the blank cartridge. Moisture can result in a complete failure, or also a significant reduction in performance. Check the blank cartridge for corrosion and check the impression of the striking pin tip on the ignition surface.

Unclear situation:

The captive bolt stunner must be sent in to turbocut Jopp GmbH for testing.

BOLT DOES NOT PENETRATE DEEPLY ENOUGH

Check whether the correct blank cartridge charge strength has been selected and check whether the interior of the captive bolt stunner is badly contaminated. In the latter case, clean thoroughly. It must be possible to move the bolt backwards and forwards easily after removing the bolt spring and the rubber buffer. By rolling the bolt on a flat surface, you can check whether the bolt is bent in a manner not permitted.

Hold the unloaded captive bolt stunner vertically with the exit opening pointing downwards. The bolt must be 4 mm inside the sleeve.

If it reaches the edge of the exit opening or if it is already protruding from it, the rubber buffer and the bolt spring must be replaced immediately (wear set).

An evasive movement by the animal or incorrect restraining of the head of the animal can result in a failed shot.

THE BOLT IS NOT RETRACTED

In unfavorable cases, the bolt can jam in the skull of an animal. After being withdrawn and cleaned, if necessary, the bolt should be pulled into the sleeve. Otherwise, the bolt could be bent (rolling test). The device could also be contaminated internally – see chapter 9 – and the bolt spring and/or rubber buffer could also be worn. The device requires maintenance. Components must be replaced (wear set).

BOLT SPRING AND RUBBER BUFFER WEAR PREMATURELY

This is often caused by the use of more powerful blank cartridges than stipulated. This can also be an indication of unsuitable ammunition being used. Use cartridges appropriate to the type of animal.

TRIGGER CANNOT BE MOVED

The annular spring has twisted. The opening of the annular spring must always be opposite the trigger. The trigger mechanism is defective or the trigger is deformed. Send the device in for inspection immediately.

8. Maintenance and care

Lead-containing dust accumulates inside the device, which can contaminate hands during maintenance and cleaning work. There is a risk of accidentally ingesting this toxic dust.

- Always wear appropriate protective gloves when working on the device.
- If gloves cannot be worn, hands must be washed thoroughly immediately

after work.

To prevent malfunctions, corrosion and damage to the device, regular maintenance is essential.

- Check the device at least once a day before starting work.
- Carefully remove any powder residue – several times a day if necessary.
- If you discover any defects, they must be rectified immediately.

When using cleaning agents, observe the applicable hazardous substances ordinance (particularly regarding labeling and instruction).

Maintenance and repairs must be performed only by trained, authorized and qualified personnel.

For safety reasons, always use original spare parts. This is the only way to ensure the operational safety of the device.

Procedure for maintenance and care

- » Use hand protection (in order to prevent contact reactions)
- » Unscrew headpiece in unloaded condition
- » Unscrew lock
- » Remove bolt spring, rubber buffer and bolt
- » Thoroughly clean the device using the cleaning kit

You can also find further advice in our video guide on maintenance and care on our website www.turbocut.de

For additional information, please scan this QR code:



Carefully clean the interior walls of the sleeve, the bolt, the bore of the intermediate piece, the exterior of the captive bolt stunner and all of the other parts with the provided brushes, which are to be screwed onto the cleaning rod. Coarse deposits and dirt should be wiped off beforehand with suitable cleaning oil (e.g. Ballistol). Check the bolt in particular for corrosion, as rust will reduce the firing force and could result in embrittlement or hairline cracks. A corroded bolt must be replaced.

The dried parts should be lightly oiled with machine oil (e.g. Ballistol). During this, keep the rubber buffer free of oils. Check the rubber buffer and the bolt spring for damage and wear.

Re-insert the bolt, rubber buffer and bolt spring in this order and screw the lock hand-tight flush against the sleeve. The bolt must not protrude out of the lock. It is likewise recommended that the headpiece be washed in cleaning oil (e.g. Ballistol) without being dismantled and then lightly oiled with machine oil (e.g. Ballistol).

Check the correct function of the device by feeding the cleaning rod provided into the empty intermediate piece and pressing the bolt out against the force of the spring. The bolt must then protrude from the bottom end of the device and must be fully retracted into it again when the cleaning rod is withdrawn.

The intermediate piece (cartridge receiver) should also be cleaned. For this, use the small brush.

9. Disposal

The Blitz-ESS captive bolt stunner is manufactured with a high proportion of recyclable materials. By recycling some parts and raw materials, you are making an important contribution to protecting the environment.

An important prerequisite for recycling is the proper separation of materials. If the device is submitted for material separation, dismantle the device to the extent possible without special tools.

Contact your local authorities if you require information about collection points in your area.

Please dispose of all parts of the device in such a way that health and environmental damage is ruled out.



Note on non-fired cartridges:

Proper disposal or return to manufacturer. Cartridges are classified as hazardous material.

Separation of the individual parts

Component	Main material	Recycling
Rubber buffer / locking ring	Plastic	Plastic recycling
Trigger clip	Plastic	Plastic recycling
All other components	Steel	Scrap metal

Even if the disposal is carried out by an approved specialist company, the operator of a captive bolt stunner must ensure that it is carried out properly.



10. Technical data

Data \ Model series	Blitz-ESS				
Article number	3071024 (cal. 6.8 x 18) / 3071034 (cal. 9 x 17)				
Short name	B-ESS				
Type of penetration	penetrating				
Bolt projection length	min. 80 mm				
Bolt retraction (automatic)	yes				
Weight	approx. 2.23 kg				
Device length in uncocked state	approx. 344 mm				
Diameter of the bolt	12 mm				
Max. firing frequency	17 shots per hour				
Cartridges	CIP M caliber 9 x 17 mm - centerfire			CIP M caliber 6.8 x 18 mm - rimfire	
Power / energy level	3	4	6	5	6

Acoustic measurement for fastener driving devices GK2 German version EN 12549:1999+A1:2008; Caliber 9 x 17 and caliber 6.8 x 18	
Noise pressure level at measurement surface L_{pA}	98 dB(A) $\pm$ 3 dB(A)
Emitted noise pressure at workplace L_{pA} (at max. 17 shots/h)	87 dB(A) $\pm$ 5 dB(A)
Sound power level L_{WA}	111 dB(A) $\pm$ 3 dB(A)
Emitted noise pressure level at workplace $L_{pA,1s}$	110 dB(A) $\pm$ 5 dB(A)
Peak noise pressure level at workplace	134 dB(C)

Key parameters acc. to EC 1099/2009 Speed ± 2 m/s and resulting energy for cartridges		
Cartridge / energy level	Caliber 9 x 17 centerfire	Caliber 6.8 x 18 rimfire
Green / 3	50 m/s - 287.5 joules	—
Yellow / 4	52 m/s - 311 joules	—
Blue / 5	—	50 m/s - 320 joules
Red / 6	57 m/s - 374 joules	57 m/s - 416 joules



We expressly point out that deviation from the recommended cartridges on page 9 can lead to increased wear and tear and that any other use is not in accordance with the intended use in terms of animal welfare.

Vibration measurement with red cartridge (460 mg) according to DIN EN ISO 5349-1, 20643 and DIN ISO/TS 15694 and 8662-11	
Total hand-arm vibration (frequency-weighted $A_{(8)}$ max. 17 shots/h)	<2.5 m/s ²
Total vibration emission value $a_{h,w,3s}$	23.4 m/s ² $\pm$ 1.5 m/s ²

11. Test specifications and repeat testing

In compliance with article 30 of DGUV regulation 56 on accident prevention and within the scope of the applicability of the general ordinance on the proof testing act, the operator of a captive bolt stunner must submit the device to the manufacturer or their appointed representative for testing **within 2 years, rounded up to the end of the month**, or immediately in the case of significant functional defects.

The period for the first repeated test starts with the shipping of the device to the operator.

The start of this period should be verified through a purchase certificate, which the manufacturer or dealer will have enclosed when handing over each captive bolt stunner.

The corresponding form on the last page of these original operating instructions serves as certification.

12. Warranty

turbocut Jopp GmbH warrants that its captive bolt stunners are free of material and manufacturing defects. This warranty applies with the prerequisite that the device be used, handled, cared for and cleaned in accordance with its intended use specified in these original operating instructions and that it be maintained as a technical unit.

This means that only original consumables, accessories and spare parts or other products of equivalent quality are to be used with the captive bolt stunner.

This warranty encompasses repair or replacement of defective parts free of charge throughout the entire service life of the device. Parts that are subject to normal wear, for example the rubber buffer and the bolt spring, are not covered by this warranty.

Further claims are excluded insofar as this does not contravene any mandatory national or international regulations. In particular, turbocut Jopp GmbH shall not be liable for direct or indirect defects or consequences of defects, losses or costs in conjunction with the use of the captive bolt stunner for any purpose whatsoever other than its proper intended purpose. Implied assurance for the use or suitability for a particular purpose is expressly excluded.

The captive bolt stunner and/or affected parts must be returned to the manufacturer or their appointed representative for repair or replacement immediately after discovery of a defect.

This warranty declaration encompasses all warranty obligations on the part of turbocut Jopp GmbH for the Blitz-ESS captive bolt stunner and replaces all earlier or simultaneous declarations, written or verbal agreements with regard to warranty services.

C.I.P. test confirmation

The Blitz-ESS captive bolt stunner from turbocut Jopp GmbH is type-approved and system-tested. For this reason, the device is furnished with a CIP T approval number and is registered with the above-named conformity assessment authority under:

DE-24-MARLIV18-PTB01.

With this, turbocut Jopp GmbH guarantees the compliance of each captive bolt stunner with the approved design and applicable regulations.

Impermissible defects discovered during use are to be reported to the manufacturer or their appointed representative.

13. Appendix

13.1 Sketches of the captive bolt stunner

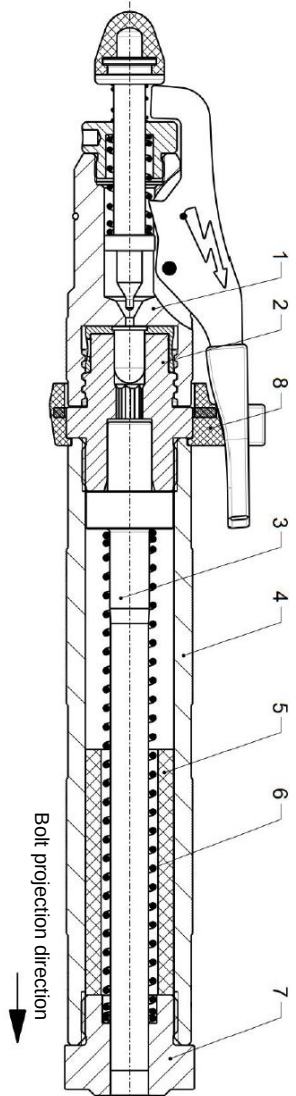
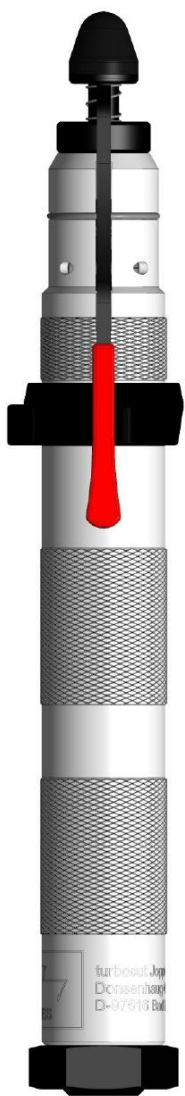
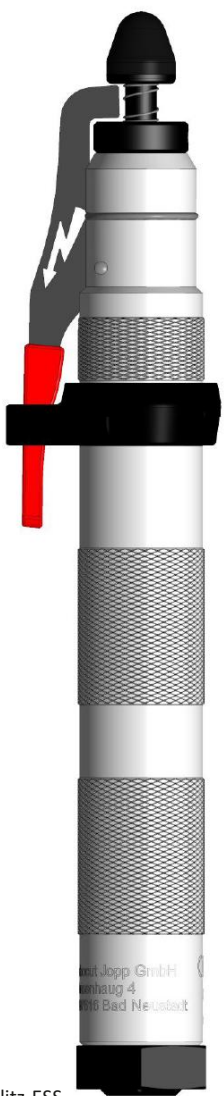


Fig.: Blitz-ESS
(Loaded, uncocked and locked)

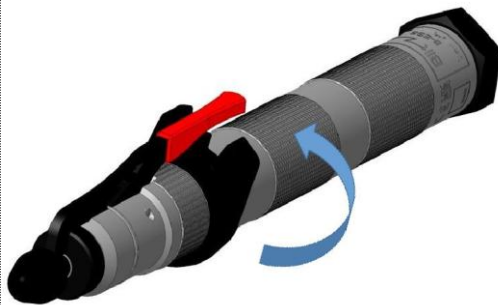


Fig.: Blitz-ESS

(Trigger in locked position)

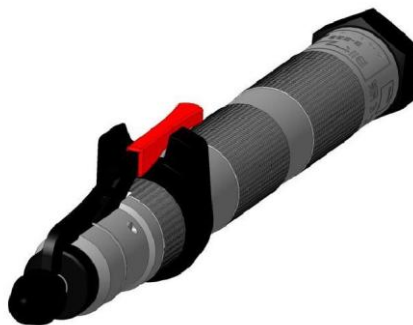


Fig.: Blitz-ESS

(Trigger in unlocked position)

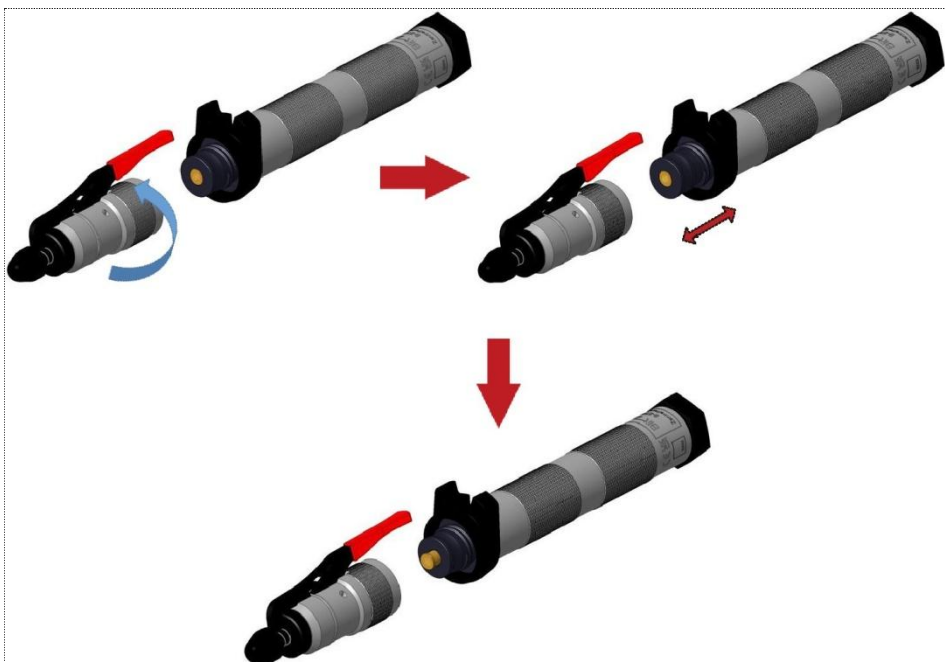


Fig.: Blitz-ESS

(Remove cartridge using ejector; identical procedure for cal. 9 x 17 and cal. 6.8 x 18)

13.2 Accessories and spare parts

In this chapter you will find suitable accessories and the spare part designations for the illustrations of the captive bolt stunners from chapter 13.1.

Spare part list for the Blitz-ESS captive bolt stunner article no.: 3071034		
Item	Designation	Article no.
1	Complete headpiece	3080639*
2	Intermediate piece (cal. 9 x17) with ejector (black)	3080658
2	Intermediate piece (cal. 6.8 x 18) with ejector (black)	3080644
3	Bolt	3080641*
4	Sleeve	3080655
5	Rubber buffer	3086088*
6	Bolt spring	3086093*
7	Lock	3080157*
8	Locking ring	3080649

The articles nos. marked with *) are available as original spare parts and/or wear sets.

You can obtain the following original spare parts via our Internet shop:

Designation	Article no.
Complete striking pin	3080326
Cleaning set	3080231
Blitz Kerner / Blitz-ESS wear set	3080228
Original operating instructions (printed version on request)	3080670

Additionally, the following blank cartridges are available:

E-level	Designation	Article no.
5	Blank cartridge 6.8 x 18 rimfire blue (strong)	3072054
6	Blank cartridge 6.8 x 18 rimfire blue (very strong)	3072053
3	Blank cartridge 9 x 17 centerfire green (weak)	3072042
4	Blank cartridge 9 x 17 centerfire yellow (medium strength)	3072041
6	Blank cartridge 9 x 17 centerfire red (very strong)	3072043
6	Blank cartridge 9 x 17 centerfire red (very strong) FIOCCHI	3072023

14. Declaration of conformity

Blitz-ESS (original)

Declaration of conformity

in accordance with Directive 2006/42/EC Annex / Point 2.2.2

-Translation-



We, the manufacturer:

turbocut Jopp GmbH
Donsenhaug 4
97616 Bad Neustadt, Germany
Phone: +49 (0) 9771/9105-366
Fax: +49 (0) 9771/9105-368
Internet: www.turbocut.de
E-mail: info@turbocut.de

hereby declare that the Blitz captive bolt stunner manufactured by us with the serial number listed on the device for the provided model series **B-ESS** complies with the following European Directive:

Directive 2006/42/EC

DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast)

Notified body for EC type-examination:

Physikalisch-Technische Bundesanstalt
Bundesallee 100
38116 Braunschweig, Germany

Identification number of the notified body:

0102

EC type-examination certificate:

DE-24-MARLIV18-PTB01

In accordance with the Directive, the following harmonized standards have been applied in the manufacture of the product:

DIN EN ISO 12100:2011-03

Safety of machinery – General principles for design – Risk assessment and risk reduction (ISO 12100:2010); German version EN ISO 12100:2010

DIN EN 15895:2011+A1:2018

Cartridge operated hand-held tools – Safety requirements – Fixing and hard marking tools; German version EN 15895:2011+A1:2018

The person authorized by turbocut Jopp GmbH to compile the technical documentation is:

Mr.
Dr.-Ing. Hubert P. Büchs
Donsenhaug 4
97616 Bad Neustadt, Germany

Signature
Managing Director:

Bad Neustadt, 08/05/2025

Street address:
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Business details:
Schweinfurt District Court HRB 4818 VAT
Registration No.: DE814496587
Managing Directors:
Dr.-Ing. Hubert P. Büchs
Dipl.-Wi.Jur. (FH) Frank Ulrich

15. Notes on caliber changes

The Blitz-ESS captive bolt stunner has been manufactured using state-of-the-art technology and can be used with both 9 x 17 centerfire and 6.8 x 18 rimfire calibers.

The captive bolt stunner is factory-fitted for caliber 9 x 17 and is available under article number 3071034.



For safety reasons and to ensure optimum installation stability when changing the caliber, the intermediate piece must not be installed by the user.

You will find more information at www.turbocut.de

For additional information, please scan this QR code:



16. For your notes

17. Important information on the purchase certificate

The operator of a captive bolt stunner must submit the device to the manufacturer or their appointed representative for inspection within 2 years, rounded up to the end of the month, or immediately in the case of significant functional defects.

The period for the first repeated test starts with the shipping of the device to the operator. The start of this period should be verified by means of a purchase certificate (see reverse page), which the manufacturer will have enclosed when handing over each captive bolt stunner to the operator.

To ensure that you do not miss the first appointment, we recommend that you keep this certificate stored safely with your schedule documents.

The original operating instructions must be observed and must be kept safely with the captive bolt stunner throughout the entire period of its use.

It is not permitted carry out modifications to the captive bolt stunner.



Never point the device towards yourself or other persons.

The device and the blank cartridges are to be stored in a dry location and in such a way as to ensure that they are secured against unauthorized use.

Manufacturer:

turbocut Jopp GmbH
97616 Bad Neustadt an der Saale, Germany

Contact:

turbocut Jopp GmbH
Kastanienallee 11
97616 Bad Neustadt an der Saale, Germany
Phone: +49 (0) 9771 / 9105-363
Fax: +49 (0) 9771 / 9105-368
E-mail: info@turbocut.de
Internet: www.turbocut.de



Click here to go directly to
our Internet shop
www.turbocut.de

Simply scan this
QR code

Purchase certificate

This certificate serves to verify the start of the period for repeat testing in accordance with the manufacturer's instructions as well as inspection by the competent veterinary office.

You or your dealer must transfer the necessary information from the delivery note and/or invoice to this certificate.

The turbocut Jopp GmbH Blitz captive bolt stunner

model series	
with apparatus number	
was delivered on	
by the company/dealer	
to	
with the receipt/invoice number	

Dates for repeat testing	
1	
2	
3	
4	
5	

Company/dealer, date, signature, dealer stamp (if applicable)